CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, October 4, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close. Oct.	Work.	Place.	On file.	See issue.
6	Dredging, etc.	Philadelphia, Pa.	S.	9-20
10	Pump-house	Ft. Snelling, Minn.	P., S. & B. S.	10- 4
*12	Hospital	New York, N. Y.	P. & S.	9-27
*15	Steel wharf sheds, railways	Manila, P. I.	P. & S.	7-19
*16	Dam, etc.	Lascruces, N. Mex.	P. & S.	9- 6

*Work advertised in Engineering News.

Oct. 1. Construct. Engr., Washington, D. C. ..... Aug. 30

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue.
Oct. 7	Lighting	Narragansett Pier, R. I.	Oct.	4
Oct. 9	Gas plant	Paulsboro, N. J.	Sept.	27
	Advertised, Eng. News, Sept. 27.			
Oct. 10	Light plant	Manassas, Va.	Sept.	13
	Advertised, Eng. News, Sept. 13 and 20.			
Oct. 11	Equipment	Washington, D. C.	Sept.	6
Oct. 16	Apparatus and equipment	Rushville, Ind.	Oct.	4
Oct. 20	Gas holder	Egg Harbor City, N. J.	Oct.	4
	Advertised, Eng. News, Oct. 4 to 18.			

BRIDGES.

Oct. 4	Swing bridges	Dayton, Ohio	Sept. 20
Oct. 4	Bascule bridge	La Porte, Ind.	Sept. 20
Oct. 5	Steel bridges	Sandusky, Ohio	Sept. 20
Oct. 8	Bridge	Daggett, Cal.	Aug. 23
Oct. 8	Bridge	Mount Ephraim, N. J.	Oct. 4
Oct. 8	Bridges	Mount Vernon, Ind.	Oct. 4
Oct. 8	Bridge	Stuart, Va.	Oct. 4
Oct. 9	Bridges	Lawrenceville, N. J.	Oct. 4
Oct. 9	Pier	Wilmington, Del.	Oct. 4
Oct. 10	Floor	Youngstown, Ohio	Oct. 4
Oct. 10	Concrete, steel bridge	Winchester, Va.	Sept. 20
Oct. 11	Bridges, etc.	Delphi, Ind.	Sept. 27
Oct. 12	Bridges	Coshocton, Ohio	Sept. 27
Oct. 15	Revolving bridge, etc.	Salem, Mass.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4.		
Oct. 15	Bridge	Woonsocket, R. I.	Oct. 4
	Advertised, Eng. News, Oct. 4 and 11.		
Oct. 15	Substructure	Bryan, Ohio	Oct. 4
Oct. 16	Bridge piers, etc.	Winnipeg, Man.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4.		
Oct. 20	Steel superstructure	Winnipeg, Man.	Sept. 27
	Advertised, Eng. News, Sept. 27 to Oct. 18.		
Oct. 22	Bridges	Martins Ferry, Ohio	Oct. 4
Oct. 25	Bridge	Atlanta, Ga.	Sept. 13
Nov. 8	Bridges	Atlanta, Ga.	Oct. 4

BUILDINGS.

Oct. 9	Library	Oberlin, Ohio	Sept. 20
Oct. 11	Wrecking	San Francisco, Cal.	Oct. 4
Oct. 12	Hospital	New York, N. Y.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4.		
Oct. 15	School buildings	Port Huron, Mich.	Oct. 4
Oct. 15	Court-house	Nelson, B. C.	Oct. 4
Oct. 15	Mail lift	Kansas City, Mo.	Oct. 4
	Advertised, Eng. News, Oct. 4 and 11.		
Oct. 15	Y. M. C. A. building	Savannah, Ga.	Oct. 4
Oct. 15	Experimental station	Annapolis, Md.	Oct. 4
Oct. 16	Employees' quarters	Grand Junct'n, Colo.	Sept. 20
Oct. 16	Plumbing	Charleston, S. C.	Sept. 27
Oct. 17	Elevator	Fargo, N. Dak.	Oct. 4
Oct. 19	Quarters	Youngstown, N. Y.	Sept. 27
Oct. 22	Guard-house	Washington, D. C.	Sept. 27
	Advertised, Eng. News, Sept. 27 to Oct. 18.		
Oct. 22	Wiring	Sherman, Tex.	Oct. 4
	Advertised, Eng. News, Oct. 4 and 11.		
Oct. 22	Guard-house	Washington, D. C.	Oct. 4
Oct. 23	Mess hall	Washington, D. C.	Sept. 13
	Advertised, Eng. News, Sept. 13 to Oct. 18.		
Oct. 24	Hospital	Utica, N. Y.	Oct. 4
	Advertised, Eng. News, Oct. 4 to 18.		
Nov. 1	Officers' quarters	Fort Dupont, Del.	Oct. 4
	Advertised, Eng. News, Oct. 4 to 18.		
Dec. 20	Plans and specifications	Shreveport, La.	Oct. 4

WATER SUPPLY AND IRRIGATION.

Oct. 4	Pipe, trenching, etc.	Wilkes-Barre, Pa.	Sept. 27
Oct. 6	Canals, reservoirs, etc.	Chouteau, Mont.	Sept. 20
Oct. 6	Water mains	Seattle, Wash.	Oct. 4
Oct. 8	Water-works system	Atoka, Ind. T.	Sept. 20
	Advertised, Eng. News, Sept. 20 and 27.		
Oct. 10	Pump-house	Fort Snelling, Minn.	Sept. 20
Oct. 10	Water-works dam	Charlottesville, Va.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4.		
Oct. 10	Laying mains	New York, N. Y.	Oct. 4
Oct. 11	Water-works	Holland Patent, N. Y.	Sept. 27
Oct. 13	Water-works extension	Caldwell, Idaho	Sept. 27
Oct. 14	Pumping engine	Henderson, Ky.	Sept. 20
Oct. 15	Well, pump	El Paso, Tex.	Sept. 27
Oct. 15	Steel tank	Fortress Monroe, Va.	Sept. 27
	Advertised, Eng. News, Sept. 27 to Oct. 11.		
Oct. 31	Water-works	Whiterocks, Utah	Oct. 4

SEWERAGE.

Oct. 4	Sewers	Buffalo, N. Y.	Sept. 27
Oct. 5	Sewers	Canton, Ohio	Oct. 4
Oct. 6	Drain	Oswego, N. Y.	Oct. 4
Oct. 8	Sewers	McCook, Neb.	Oct. 4
Oct. 8	Sewers	Chicago, Ill.	Oct. 4
Oct. 8	Sewer	Cape May, N. J.	Sept. 27
	Advertised, Eng. News, Sept. 27.		
Oct. 8	Public drain	Brookville, Ind.	Sept. 20
Oct. 8	Sewers	Omaha, Neb.	Sept. 20
	Advertised, Eng. News, Sept. 20 to Oct. 4.		
Oct. 9	Sewer	Emsworth, Pa.	Oct. 4
Oct. 9	Sewer	Rahway, N. J.	Oct. 4
Oct. 9	Sewers	Fond du Lac	Oct. 4
Oct. 10	Sewer	Portchester, N. Y.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4.		
Oct. 10	Sewers	Fayetteville, N. C.	Sept. 27
	Advertised, Eng. News, Sept. 27 to Oct. 18.		
Oct. 12	Sewers	Lancaster, Ohio	Oct. 4
Oct. 15	Sewers	Charleston, Ill.	Oct. 4
Oct. 15	Sewer	Fort Dodge, Iowa	Oct. 4
Oct. 15	Sewer	Yankton, S. Dak.	Oct. 4
Oct. 18	Sewers	Washington, D. C.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4.		
No date	Sewer	Lorain, Ohio	Oct. 4
No date	Sewers	Amsterdam, N. Y.	Oct. 4

STREETS AND ROADS.

Oct. 5	Macadam roads	Decatur, Ind.	Sept. 20
Oct. 5	Paving	Canton, Ohio	Oct. 4
Oct. 6	Gravel road	Spencer, Ind.	Oct. 4
Oct. 6	Road	Cleveland, Ohio	Sept. 27
Oct. 6	Grading	Cape May, N. J.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4.		
Oct. 8	Roads	Wyoming, Ohio	Sept. 27
Oct. 8	Macadam road	Cincinnati, Ohio	Sept. 20
Oct. 8	Driveway	Chicago, Ill.	Sept. 20
Oct. 8	Paving, etc.	New Orleans, La.	Oct. 4
Oct. 8	Graveling	Hampton Falls, N. H.	Oct. 4
Oct. 8	Macadam	Hawthorne, N. J.	Oct. 4
Oct. 8	Paving	Jersey City, N. J.	Oct. 4
Oct. 8	Grading	New York, N. Y.	Oct. 4
Oct. 10	Macadam	Kansas City, Mo.	Oct. 4
Oct. 10	Grading	Modesto, Cal.	Oct. 4
Oct. 10	Paving	South Bend, Ind.	Oct. 4
Oct. 10	Macadam road	Camden, N. J.	Sept. 20
	Advertised, Eng. News, Sept. 20 to Oct. 4.		
Oct. 10	Crushed stone	Fort Thomas, Ky.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4.		
Oct. 10	Grading	Omaha, Neb.	Sept. 27
Oct. 12	Roads	Cincinnati, Ohio	Sept. 27
Oct. 13	Gravel roads	Terre Haute, Ind.	Sept. 27
Oct. 15	Grading	Fort Mott, N. J.	Sept. 27
Oct. 17	Paving, etc.	Wellsville, N. Y.	Oct. 4
	Advertised, Eng. News, Oct. 4 and 11.		
Oct. 17	Grading	New York, N. Y.	Oct. 4
Oct. 19	Sidewalks	Washington, D. C.	Oct. 4
Oct. 20	Macadam road	Greencastle, Ind.	Sept. 27
Oct. 31	Roadway	Grand Rapids, Mich.	Sept. 27
Oct. 31	Road	Byron, Mich.	Oct. 4
Nov. 1	Macadam	Highlands, N. J.	Oct. 4
	Advertised, Eng. News, Oct. 4 to 25.		
No date	Grading	Macon, Ga.	Oct. 4
	Advertised, Eng. News, Oct. 4.		

MISCELLANEOUS CONTRACTS.

Oct. 6	Dredging, etc.	Philadelphia, Pa.	Sept. 20
Oct. 6	Electric railway	Middleport, Pa.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4.		
Oct. 6	Inclined railway, etc.	Niagara Falls, N.Y.	Sept. 27
Oct. 8	Drain	Brookville, Ind.	Sept. 27
Oct. 8	Athletic field	New York, N. Y.	Oct. 4
Oct. 9	Snow removal	New York, N. Y.	Oct. 4
Oct. 9	Naval supplies	Washington, D. C.	Sept. 20
Oct. 10	Drainage	Cisco, Ill.	Sept. 20
	Advertised, Eng. News, Sept. 20.		
Oct. 10	Railway	Belgium (Foreign)	Aug. 30
Oct. 11	Dredging	New York, N. Y.	Sept. 13
	Advertised, Eng. News, Sept. 13 to Oct. 4.		
Oct. 11	Seawalls	Boston, Mass.	Oct. 4
	Advertised, Eng. News, Oct. 4.		
Oct. 12	Shells, etc.	Washington, D. C.	Oct. 4
Oct. 12	Wharf, dredging, etc.	Ft. Hunt, Va.	Sept. 20
Oct. 13	Boilers, heaters, etc.	Norfolk, Va.	Oct. 4
Oct. 15	Drains	Rio Grande do Sul, Brazil (Forn)	May 31
Oct. 15	Steel sheds	Rys., Manila, P. I.	July 19
	Advertised, Eng. News, July 19 to Aug. 30.		
Oct. 15	Ry. work	Missouri & N. Arkansas Ry.	Sept. 27
	Advertised, Eng. News, Sept. 27.		
Oct. 16	Dam, canal, excav.	Lascruces, N. Mex.	Sept. 6
	Advertised, Eng. News, Sept. 6 to Oct. 11.		
Oct. 16	Earth spreaders, etc.	Panama	Oct. 4
Oct. 16	Naval supplies	Washington, D. C.	Oct. 4
Oct. 18	Fire alarm system	Petersboro, Ont.	Oct. 4
Oct. 20	Crematory	Fort Mott, N. J.	Oct. 4
Oct. 20	Crematories	Salem, N. J.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4.		
Oct. 22	Pier	Norfolk, Va.	Oct. 4
	Advertised, Eng. News, Oct. 4 to 18.		
Oct. 22	Dredging plant	Detroit, Mich.	Oct. 4
	Advertised, Eng. News, Oct. 4 to 18.		
Oct. 23	Naval supplies	Washington, D. C.	Oct. 4
Oct. 29	Crematory	Delaware City, Del.	Oct. 4
	Advertised, Eng. News, Oct. 4 to 18.		
Oct. 30	Naval supplies	Washington, D. C.	Oct. 4
Nov. 1	Dam, etc.	Mitchell, Neb.	Oct. 4
	Advertised, Eng. News, Oct. 4 to 25.		
Nov. 6	Subway substructure	Toronto, Ont.	Oct. 4
	Advertised, Eng. News, Oct. 4 and 11.		
Nov. 6	Railway	Spain (Foreign)	Aug. 30
Nov. 15	Canal, dam, tunnels	N. Yakima, Wash.	Sept. 27
	Advertised, Eng. News, Sept. 27 to Nov. 1.		
Nov. 15	Dam, excavation	N. Yakima, Wash.	Sept. 27
	Advertised, Eng. News, Sept. 27 to Nov. 1.		
Mar. 18 ('07)	Tunnel	New Zealand (Foreign)	Sept. 13
	Advertised, Eng. News, Sept. 13 to Mar. 14.		
No date	Jetty plans, estimates	Asbury, N. J.	Sept. 27
	Advertised, Eng. News, Sept. 27.		
No date	Grading	Macon, Ga.	Oct. 4
	Advertised, Eng. News, Oct. 4.		

CIVIL SERVICE EXAMINATIONS.

Oct. 11	Inspector Sewer Const.	New York, N. Y.	Sept. 27
Oct. 17	Bridge Engr.	Manila, P. I.	Sept. 27
Oct. 17	Prin. Asst. Ch. Engr.	Manila, P. I.	Sept. 27
Oct. 17	Asst. Engr.	Manila, P. I.	Sept. 27
Oct. 17	Junior C. E.	Manila, P. I.	Sept. 27
Oct. 17	Master Builder	Manila, P. I.	Sept. 27
Oct. 17	Second Asst. Engr.	Manila, P. I.	Sept. 27
Oct. 17	Scientific Asst.	Washington, D. C.	Sept. 20

REGARDING NEW PROJECTS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS THE

Construction News Department

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ABBEVILLE & NORTHWESTERN.—We are officially informed that surveys are to begin at once for this line, which is to be built from Abbeville, Ga., to Fort Valley, via Pineview and Unadilla, about 50 miles. Right-of-way is partly obtained. Officers are not yet chosen. Noted last week.

ALABAMA.—We are officially advised that J. C. GROSS, of Finchburg, Ala., has the contract for building a 15-mile section of the proposed railway to be built by the Flat Creek Mill Co., of Finchburg, from that city to Mobile, Ala., down the east side of the Alabama River, 140 miles. W. H. Louiselle, Mobile, is Pres.; Sibley Homes, of Finchburg, is Ch. Engr.

E. R. Bassett, with W. M. Kirby, F. Kister and others, of Bowling Green, Ky., have purchased timber lands in Fayette and Tuscaloosa Counties, Alabama, along the Sipsey River, and may build a railroad from Fayette, on the Southern Railway, to a point on the Mobile & Ohio Railroad west of Tuscaloosa.

ATLANTA, BIRMINGHAM & ATLANTIC.—The CALLAHAN CONSTRUCTION CO., of Knoxville, Tenn., has been awarded contract, it is reported, for building 20 miles of railway for this company. Estimated cost, $1,000,000.

CANADIAN PACIFIC.—The Canadian Railway Commission has given this company permission to build a line from Victoria Harbor, on Georgian Bay, to connect with the main line at Peterboro, Ont., 98½ miles long. It will parallel the Midland section of the Grand Trunk Railway all the way.

CANADIAN RIVER R. R.—Company has been chartered in Oklahoma to build a railroad from Woodward southeast through the counties of Woodward, Dewey and Blaine to Watonga, from which point one line will be built east through the counties of Blaine, Kingfisher and Logan to Guthrie, and another line will be built through the counties of Blaine, Kingfisher, Canadian and Oklahoma to Oklahoma City, a total distance of 210 miles. Surveys are under way. Right-of-way is partly secured. Capital stock, $5,500,000. Jesse G. Northcutt, of Raton, N. Mex., is Pres.; B. W. Key, of Woodward, Vice-Pres.; W. P. Halliday, Ch. Engr., at Woodward, Okla.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—Contracts will be let soon for building the new division from Mount Carmel, Ill., to Evansville, Ind., a distance of 30 miles. Mount Carmel is on the Wabash River, over which a bridge will have to be constructed. W. M. Duane is Ch. Engr., at Cincinnati.

COLUMBIA VALLEY.—L. Gerlinger, Pres., Portland, Ore., advises us that company itself is building its railway, which is to extend from Wallula to Vancouver, Wash., 221 miles. Construction will include a large amount of rock work. Surveys are made. Right-of-way is partly obtained. P. L. Wise, of Portland, is Ch. Engr.

GEORGIA & FLORIDA PINE BELT.—Application has been made for a charter for this company for a railroad in Georgia to build a railroad from Waycross to Statenville, about 60 miles. Capital stock, $50,000. Incorporators: W. B. Ellington, W. W. Sharp, Leon A. Wilson, G. R. Youmans and J. S. Bailey, of Ware County; W. C. Dodson, C. J. Hadon and B. W. Blackstock, of Fulton; W. L. Herendeen, of New York; and D. C. Newton, of Tatnall County.

GLADE & GUYANDOTTE.—A. D. Preston, Pres., Beckley, W. Va., states that this company has been incorporated to build a line from Glade to Mullins, W. Va., a distance of 30 miles. The route is up Glade Creek and thence down the Guyandotte River. Grading has been completed for a distance of ten miles from Glade to Crow. M. C. Brackman, Secy., Beckley, W. Va.; G. S. Beckwith, Treas., Cleveland, Ohio.

GLENVILLE & KANAWHA.—This company expects to begin survey immediately to locate the proposed line, which will run for about 25 miles through fine coal land. Active construction is expected to begin as soon as preliminaries can be arranged. R. F. Kidd is Pres.; James A. Tierney, Secy. and Treas., and Robert L. Ruddell, Gen. Mgr., Glenville, W. Va.

GREENWICH & JOHNSONVILLE.—We are officially advised that this company has started construction of a 10-mile branch line from Greenwich to Salem, N. Y. A. A. Parker, of Waterford, N. Y., is Supt. in charge of construction. Contracts will be let by company for grading and masonry. Chambers & Hone, 60 New St., New York, are the Engrs. I. C. Blandy is Pres., Greenwich, N. Y.

KANSAS CITY, LAWTON & PACIFIC.—The OKLAHOMA SOUTHWESTERN CONSTRUCTION CO., of Lawton, Okla., has been incorporated to build that section of the Kansas City, Lawton & Pacific Railway between the Grand River in the Indian Territory and the Red River on the southern boundary of Oklahoma; also the branch from Wewoka via Wetumpka to Dustin. The company is capitalized at $7,500,000, and the following are the incorporators: H. W. Scott, of New York; Henry Briggs and C. M. Rawlins, of Kansas City, Mo.; C. L. Long, of Wewoka; E. A. Hill, of Muskogee; E. E. Shipley, R. A. Jones, S. L. Keagan and James H. Powers, of Lawton. Noted on Aug. 30.

LAKE SUPERIOR & ARIZONA COPPER CO.—At a recent meeting of the directors of this company in Calumet, Mich., it was decided to build a railroad 28 miles long from Florence, Ariz., to the company's mines at Superior.

MARLBORO R. R.—Howard H. Parsons, Pres., Detroit, Mich., advises us that track has been laid on 1-mile line, from Marlboro Junction, on Pere Marquette R. R., to Marlboro, Mich. Extensions will not be built until 1907. Notice of incorporation given in issue of Aug. 30.

NORFOLK & WASHINGTON AIR LINE.—A. B. Linderman, Pres., Forest Bldg., Philadelphia, is reported as saying that it proposes to build a steam railway from Washington, D. C., to Esperanza, Md., 64 miles; Survey is made and grading finished from Mechanicsville, Md., to Arcade Bridge, Md., 22 miles. D. E. BAXTER & CO., 27 William St. New York, have been awarded construction contract for the entire line. J. O. King is Vice-Pres. at Oakville, Md., and William A. Hopkins is Secy. and Treas. Reuben Albert is Ch. Engr., both of Philadelphia.

NORTHERN PACIFIC.—A branch from Mandan, N. Dak., to Standing Rock, 40 miles, is under consideration. Also a branch from Mandan to Mannhaven, 60 miles.

ORANGE & KEYSVILLE.—The company proposes to build 40 miles of line to run from Keysville Junction, Va., on the Southern Railway, to the crossing of the Tidewater Railway near the Charlotte County boundary, crossing the Norfolk & Western Railway at Farmville and connecting with the Chesapeake & Ohio Railway via the Willis Mountain route. Contracts are being awarded. Robert T. Hubard is president at Dillwyn, R. F. D. No. 3, Buckingham County, Va.

OREGON SHORT LINE.—COREY BROS., of Ogden, Utah, have been awarded contract for the construction of an 18-mile extension on the Twin Falls branch of the Oregon Short Line, between Twin Falls, Idaho, and the town of Buhl.

PECOS & NORTHERN TEXAS.—Grading has been completed on the branch from Canyon City to Plainview, Tex., 58 miles, and about ten miles of track have been laid out of Canyon City. This is a part of the Santa Fe system, and construction was started under the charter of the Gulf, Santa Fe & Northwestern, but later it was decided to build under the charter of the Pecos & Northern Texas which was amended for this purpose. The main line is to extend from a connection with the Eastern New Mexico at Texco southeast to Brownwood, Tex., a distance of 310 miles. The right-of-way is now being secured and contracts have been let and grading is in progress on 26 miles of the main line from Plainview southeast to Floydada. A. MOORE, of Newton, Kan., is the contractor.

PENHORN CREEK R. R. (Erie).—We are officially informed that the MILLARD CONSTRUCTION CO., of Philadelphia, has been awarded the contract to build an open cut in Jersey City, N. J., through Bergen Hill to the Bergen freight yards. Cost, about $2,500,000. Work on the cut will be begun within ten days, and the constructing company agrees to deliver to the Erie Railroad Co. in July, 1908, a complete four-track route for the use of passenger trains between the present Jersey City yards and the main line. The cut will be about 5,300 ft. in length, and is preliminary to the complete improvement of the Jersey City terminal of the Erie road, including the construction of a station for which an appropriation of $8,000,000 has been made. Four short tunnels (four tracks wide), aggregating 1,000 ft. in length, will be constructed at points where the line is crossed by streets. Francis Lee Stuart is Ch. Engr.; Geo. H. Burgess, Engr. of Terminal Improvements; A. L. Moorshead, Engr. in charge construction.

PENNSYLVANIA R. R.—D. F. KEENAN, Arcade Bldg., Philadelphia, Pa., has been awarded the contract for building an extension of the Monongahela & Washington Division from Ellsworth, Pa., to a point on Daniels Run, ten miles, to reach coal fields owned largely by the Pittsburg & Buffalo Coal Co., and the work of grading will begin at once. There will be about 1,000,000 cu. yds. of earth work and 70,000 cu. yds. of concrete masonry on this extension.

PORTLAND & AUBURN.—Incorporated in New York to build a railroad to be operated by steam or electric power from Cortland to Auburn, 40 miles. Capital stock, $400,000. Incorporators: L. B. Webb, F. D. Smith, of Cortland; C. G. Adams, Auburn, N. Y., and Charles B Wheeler, 18 Court St, Brooklyn, N. Y.

ROSCOE, SNYDER & PACIFIC.—N. T. REED, of Snyder, Tex., has contract for building 35 miles of this railway between Roscoe and Snyder, to be completed by April 25, 1907. The line, when completed, will be about 250 miles long, runnng northwest from Roscoe, Tex., to Portales, N. Mex. F. W. James is Pres., at Abilene, Tex.; Martin Duval is Ch. Engr., at Roscoe.

SEATTLE SOUTHEASTERN.—Incorporated in Washington to build a railroad from Seattle southeast to a point not yet determined upon. Capital stock, $100,000. Incorporators: John Bagley and J. G. Dickson, of Tacoma, Wash., and John A. Shackelford, of Seattle. Mr. Bagley is Vice-Pres. and Gen. Mgr. of the Tacoma Eastern.

SHELBY COUNTY RAILROAD.—Incorporated in Missouri to build a railroad eight miles long from Shelbyville to Shelbina, both in Shelby County. Capital stock, $110,000. Incorporators: R. L. Carter, J. E. Ragsdale, James E. Edelen and others. Headquarters, Shelbina, Mo.

SOUTHERN EXTENSIONS RY.—Arvid Rydstrom, of Tacoma, Wash., an incorporator, advises us that this company will let contracts when survey, which is now under way, is completed. The company was incorporated recently in Washington to build a railway in Oregon, extending from the mouth of the Des Chutes River along that river to Madras, and thence to Bend, Ore., with a branch to Prineville. Capital stock, $1,250,000. Right-of-way is partly obtained. Capital is secured. J. C. Donnelly, Tacoma, is Pres.

SOUTH & WESTERN.—This railway, now in operation from Johnson City, Tenn., to Spruce Pine, N. C., 65 miles, is being extended from Johnson City north to a connection with the Chesapeake & Ohio at Elkhorn, Ky., and from Spruce Pine south to Spartanburg, S. C. This will make a line 288 miles long from Elkhorn to Spartanburg. Work is just beginning on 80 miles of grade and on rebuilding the 65 miles of existing road. The contractors are the MEADOWS CO., of Bristol, Tenn.; the S. WALTON CONTRACTING CO., of Falls Mills, Va.; CARPENTER & BOXLEY, of Clifton Forge, Va.; PURCELL, ALLEN, SHEAHAN & CO., of Harrisonburg, Va.; WALTON, WILSON, RHODES & CO., of Knoxville, Tenn.; WALTON, WITTEN & GRAHAM, of Graham, Va., and the MILLARD-QUIGG CONSTRUCTION CO., of Philadelphia, Pa. This will be a low-grade coal-carrying road. It will be laid with 85-lb. steel rails. M. J. Caples is Gen. Mgr. and Ch. Engr., W. A. Doane is Principal Asst. Engr., both at Bristol, Tenn.

STATESBORO & WRIGHTSVILLE.—Application has been made for a charter by this company to build a railroad from Statesboro to Wrightsville, Ga., about 60 miles. Capital stock, $1,000,000. Incorporators: E. Daugherty, J. A. Daugherty, A. Williams, M. M. Monroe and T. L. Lanier, of Statesboro, and W. J. Williams, Peuter W. Wilson and Alex. D. Coleman, of Emanuel County, Ga., and Claud C. Lee, Stamford, Conn., and Gerald B. Conklin, of New York.

TRANS-CONTINENTAL RY.—It is reported that advices have been received by the Commissioners of the National Trans-Continental Railway, at Ottawa, Ont., from the engineers who are locating the line between Quebec and Winnipeg that they have succeeded in finding a route which will reduce the distance between these points to 1,350 miles. This is fully 400 miles less than the estimate given by the Minister of Railways in the House last session. If this report be true it will mean a saving of at least $15,000,000 on the estimate cost of construction. S. N. Parent is Chn. of Comrs.

WESTERN OKLAHOMA.—We are officially informed that no contracts have been yet let by this company, which was recently granted a charter in Oklahoma. Reconnaissance survey has been made. The company has been authorized to build from Lindsay, Ind. T., to Alston, Okla. (162 miles); from Oklahoma City to a point of connection with the first-named line (105 miles), and from Guthrie west to a connection with the second-named line (65 miles), in Blaine County. Construction of but 31 miles of this road, from Alston to Selling, Okla., is at present proposed. The officers of the company are as follows: Pres., Henry E. Asp, Guthrie, Okla.; First Vice-Pres., W. B. Jansen, Chicago; Second Vice-Pres., J. W. Kendrick, Chicago; Third Vice-Pres., G. T. Nicholson, Chicago; Secy.-Treas., E. L. Copeland, Topeka, Kan.; General Counsel, Walker D. Hines, New York.

WICHITA FALLS & NORTHERN.—Company has been incorporated in Texas and has authority to construct a railroad from Wichita Falls, Tex., north to the Red River, a distance of about 20 miles. It is proposed to incorporate another company in Oklahoma for the purpose of connecting with this line and building to Lawton, a distance of about 45 miles from the Red River. The main office of the Texas company will be at Wichita Falls. Its authorized capital stock is $20,000. Among its incorporators are J. A. Kemp, Frank Kell, R. E. Huff, W. Blair and C. W. Bean, of Wichita Falls, Tex., and W .C. Fordyce, J. H. Smith and L. S. Mitchell, of St Louis, Mo.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ROCKVILLE, CONN.—The municipal authorities of Rockville have granted to the Consolidated Railway Co. the necessary local franchises for the construction of the Rockville end of the proposed trolley line from that city to the Massachusetts State boundary in Stafford. One provision of the permit requires that the road, within the municipal limits, shall be completed by Sept. 15, 1907. This line will constitute a part of the electric road which is to be built between Hartford and Worcester. Construction work will be pushed.

HARRISBURG, PA.—Joseph Ramsey, Jr., who proposes to build an electric air line from New York to Chicago, has made application at Harrisburg, Pa., for a charter for the Keystone Air Line. In this application it is set forth that the Indiana, Clearfield & Eastern Railroad, with 25 miles of road in Indiana and Clearfield Counties; the Allentown, Tamaqua & Ashland Railroad, with 50 miles of road in Lehigh and Schuylkill Counties, and the Brush Creek & Crow's Run Railroad, with ten miles of road in Beaver County, have arranged for extensions so that they may connect to form one line. The new company is capitalized at $450,000, the aggregate capital of the three roads. Full details of this project were given on Aug. 30.

CATAWISSA, PA.—The Catawissa & Numidia St. Ry. Co. has had a preliminary line run and has obtained part of its right-of-way, but no other work has been done. The road as proposed will be some 6¾ miles long, connecting Catawissa, Bloomsburg, Danville, Berwick, and the towns north of Berwick. Daniel Know, of Numidia, is Pres.

ELIZABETHTOWN, PA.—The Royaltown & Elizabethtown St. Ry. Co. is now perfecting its arrangements so as to begin in the spring the construction of its proposed line to connect Middletown and Mt. Joy, with extensions to Lancaster and Lebanon. The road will be 52 miles in length. E. M. Raymond is Secy. and Treas., Real Estate Trust Bldg., Philadelphia, Pa.

MILLTOWN, GA.—Preliminary survey for an electric railway from Milltown to Valdosta, Ga., 20 miles, is being made by Frank Lederle, Atlanta, Ga. The line will be built by the South Georgia Land & Industrial Co. Noted on Sept. 20. Water-power plant will be built at Middletown. Cost will be about $250,000.

HATTIESBURG, MISS.—The Hattiesburg Traction Co. will commence immediately the construction of seven miles of street railway; 7-in. 85-lb. girder rails will be used in the paved section of the city, and 40-lb. rails in suburbs. The girder rails are now on the ground, but contract has not been closed for 375 tons of 40-lb. rails. The company will purchase line supplies, cars and equipment, including 150 HP. gas engine. Edward J. O'Beirne, Empire Bldg., Atlanta, Ga., is Engr. and Purchasing Agent.

CORINTH, MISS.—The Corinth & Shiloh Electric Railway Co. has been financed by W. W. Williams & Co., First National Bank Bldg., Nashville, Tenn., and construction will begin immediately. Company is in the market for rails and supplies. Williams & Co. are in charge of construction.

NEW ORLEANS, LA.—The St. Bernard Traction Co., of New Orleans, was organized on Sept. 20, with a capital stock of $300,000, for the purpose of constructing and operating an electric railway from the Lake Landing to the district Court House. The officers and board of directors for the company will be elected at a meeting of the stockholders to be held within a few days. The directors are William J. Kelly, M. Warrines, H. Warrines, Henry P. Dart, Oliver P. Livaudais and L. T. Bringier. New Orleans and Eastern capitalists are behind the project and it is understood that the New Orleans Railway & Light Co. is also interested. The construction of this line will probably mean the operation of cars as far as Borgne Beach within the next six months. The extension to the district Court House will be made later. The line, when completed, will traverse twelve miles of suburb, and will be, it is believed, a continuation of the Bayou line of the New Orleans Railway & Light Co.

CLEVELAND, OHIO.—We are officially advised that contract for constructing the Cleveland & Sharon Ry. has been let to the ELDENBEL CONSTRUCTION CO., 42 Broadway, New York. Francis J. Morgan, Cleveland, is Pres.; James B. Caboon is Ch. Engr., 42 Broadway. The line will extend from Cleveland to Sharon, Pa., via Middlefield, Ohio, 80 miles. Right-of-way is partly secured. Surveys are under way.

COLUMBUS, OHIO.—The Railroad Commission of Ohio, appointed a few weeks ago acting under the Wirtz law, passed by the last Legislature of that State, has extended its supervision over electric railways, and in the future will require them to make the same reports and to follow practically the same regulations that have been required of steam roads in the past. Representatives of the Commission have already made thorough investigations of two or three wrecks which have occurred on Ohio interurban roads within the past few weeks. The Commission has decided that it will not attempt this year to require the interurban roads to make the same detailed reports of equipment, earnings, operating expenses, employees, etc., that is required of the steam roads, because these reports are due within a few weeks, but it will shortly call a meeting of Ohio interurban operators to devise plans for more uniform regulations and schemes of operation. The Commission will take up the question of safety devices on traction lines, and will require the roads to make reports of all accidents immediately. It is also understood that the Commission will investigate the passenger rates charged by some of the interurban lines. The Commission holds that its jurisdiction extends to the electric roads in the matter of rates as well as in other matters. It is known that in a few instances where interurban roads do not have the competition of steam roads, they have always charged more than the 2 cents a mile rate which was prescribed by the last Legislature. It has been claimed by these roads that the 2-cent law referred only to the steam roads and that therefore they do not come under the province of its rule and there may be some controversy on this point.

KENTON, OHIO.—The Lima, Kenton & Marion Traction Co. has been organized with the following officers: Joseph A. Vandergift, New York, Pres.; Albert G. Applefield, Kenton, Vice-Pres.; W. M. Embert, Baltimore, Secy.-Treas. The company is incorporated for $1,000,000 to build a line between Lima and Marion by way of Kenton. The Philadelphia Trust Co. will be the trustee. W. H. OGAN, of Indianapolis, will be the contractor. Construction work may start at once. It is the present intention to use the Strang gasoline electric car on the line.

MANSFIELD, OHIO.—We are officially informed that the CLEVELAND CONSTRUCTION CO., of Cleveland, has contract for building the Cleveland, Ashland & Mansfield Traction Co.'s line from Mansfield to Seville, Ohio, 44 miles in length. C. W. Collister is Pres., and Roberts & Abbott are the Engrs., at Cleveland. The contractor has graded 15 miles of line. Bridge work, fencing and rail laying are now in progress. Capital and right-of-way are secured and surveys made.

KALAMAZOO, MICH.—We are officially informed that the Kalamazoo, Elkhart & South Bend Ry. Co. will let contracts for construction of its line as soon as project is financed. It is to be 72 miles long, running from Kalamazoo to Vicksburg, Three Rivers, Constantine and Elkhart, Mich., and to Mishawaka and South Bend, Ind. Surveys have been made and right-of-way secured. A. D. Harris is Pres., 110 South Main St., South Bend, and John F. Meigh is Ch. Engr., also at South Bend. Work will be mostly over sandy land with light cuts and fills. Maps and profiles will be ready soon. Company wishes to correspond with contractor who will build the line and take stock or bonds.

MOLINE, ILL.—The Moline, Rock Island & Eastern Traction Co., principal office Rock Island, capital stock $5,000, has been incorporated to construct a railroad from Carbon Cliff, both in Rock Island County, and also from Rock Island to Galesburg, Knox County; incorporators and first Board of Directors, Joseph F. Porter, James F. Lardnor, Frank G. Young, Herbert E. Casteel and Burton F. Peck.

BELLEVILLE, ILL.—The Belleville & Pinckneyville Traction Co. has been incorporated to build an electric railway from Belleville to Pinckneyville, Ill. The capital stock is $100,000; incorporators, Lucius D. Turner, Belleville; John A. Hamilton, Marissa, Ill.; William Stevenson, Tilden, Ill.; W. T. Armstrong, Coulterville, Ill.; George F. Mead, Pinckneyville, Ill.

City has granted franchises to the Duquoin Rapid Transit Co., of Duquoin, Ill., for a single-track railway on Mascoutah Ave. and Second and Spring Sts., and also to the Southern Traction Co., represented by E. S. Methan, of St. Louis, for a double-track street railway system from the city limits at Crystal Pl. east on Second St., and on Centerville Ave. to First St., and thence to Spring St. The proposed line is to connect Belleville with East St. Louis and St. Louis. The Duquoin Co. is to have its line from Duquoin to Belleville within one year or forfeit $2,500 to the city.

ARGENTINA, ARK. — The franchise granted to J. M. Griffin, J. P. Faucette and John O. Vogel by the City Council on Aug. 9, at a called meeting, for the construction and operation of a street railway system through the principal streets of the city, has been accepted. The contract calls for the operation of cars on the main streets of the city within 18 months, and the franchise is free for the first 30 years, after which an increasing tax is paid into the city treasury until the expiration of the grant at 50 years.

EDMONTON, ALTA.—The City Engineer has prepared plans by order of the City Council for building an electric street railway to run from Kinestino to 21st St., on Jasper Ave., and from Jasper Ave. to the Canadian Northern depot, on First St. The estimated cost of the railway is $66,000.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BEVERLY, MASS.—The Beverly Gas & Electric Co. has been authorized by the Board of Gas and Electric Light Commissioners to issue $200,000 of bonds for additions to its plant. John Foley is Ch. Engr.

NARRAGANSETT PIER, R. I.—Bids are asked at the office of the town clerk until Oct. 7, for lighting the streets of the village of Narragansett Pier by electricity, gas, gasoline or other artificial light.

PUTNAM, CONN.—Arrangements are being made by the Consolidated Railway Co. for running a high-tension wire, for the purpose of transmitting electricity from the company's power station 2½ miles north of this village to Central Village and Taftville, for use of the road now under construction, south of the village. W. A. Stanton is Ch. Engr.

MALONE, N. Y.—The Malone, Fort Covington & Hopkins Point Electric Railway Co. has obtained water power rights on the Salmon River, near the centre of the railway line, and will install a hydro-electric plant.

NEW YORK, N. Y.—THE HUDSON CO., which concern is constructing the twin tunnels connecting Jersey City with New York, has been awarded contract for the electrification of the tunnel lines, which will cost about $3,500,000. The GENERAL ELCTRIC CO. has been allotted the work. Power to operate the system will be generated at a station to be built on the New Jersey side on Washington St., between Jersey City and Hoboken. The initial equipment will be capable of developing about 25,000 HP. Turbines are to be installed. The contract calls for two units of 6,000 KW. capacity each and two of 3,000 KW. each. They will be 11,000 volt machines of the Curtis type. The total power generated at the New Jersey power plant will be distributed at high voltage to three sub-stations, where the alternating current will be "stepped down" to 650 volts direct current through transformers and rotary converters. The principal substation will be built at Greenwich and Christopher Sts., New York.

BUTLER, N. J.—At a meeting of the mayor and council a franchise was granted the Bellman & Sanford Electric Lighting Co., of New York, to install a plant in the borough.

EGG HARBOR CITY, N. J.—Bids are asked by the Enterprise Gas Co., until 4 p. m., Oct. 20, for the erection of one 51,000 cu. ft. capacity, single section, steel gas holder. (Advertised, Engineering News.)

HYATTSVILLE, MD.—Potomac Electric Power Co., Washington, D. C., has secured franchise for the operation of electric light plant for ten years. Arrangements will be made for the erection of plant. R. W. Crowell is Pur. Agt.

RICHMOND, VA.—The city is considering installation of electric light plant. It is estimated that about $300,000 will be required for the complete equipment of plant. W. E. Cutshaw is City Engr.

DILLSBORO, N. C.—G. W. Reagan and associates, cotton mill manufacturers of Gastonia, N. C., have purchased a water power on Tuckaseege River, near here, and it is said that they will develop the water power for the manufacture and distribution of electricity, and also establish a cotton mill.

GAFFNEY, S. C.—The Electric Mfg. & Power Co., of Spartanburg, will develop the water power of Broad River and supply Gaffney, Spartanburg and other towns.

ROCK HILL, S. C.—Bids are wanted for an electric light system and steam plant for lighting the city. Contracts must be closed not later than Dec. 1st, and plant ready for operation June 10, 1907. C. S. May is city Clk.

HAZELHURST, GA.—The city will vote on the issuance of bonds for constructing water-works and purchasing local electric light plant.

NATCHITOCHES, LA.—Arrangements are being made to improve the electric light plant and water-works.

ST. AUGUSTINE, FLA.—A resolution has been passed by the City Council authorizing the clerk to receive bids for lighting the streets for a period of one year with gas or electricity, beginning Oct. 15, 1906. About 86 lamps will be required.

GALION, OHIO.—It is reported that $8,500 of bonds will be issued for improving the electric light plant. John Shea is City Clk.

COLUMBUS, OHIO.—We are officially advised that the Columbus & Hocking Coal Co. has awarded contracts as follows: Contracts for three 500 HP. producer gas engines for this power plant were awarded the SNOW STEAM PUMP WORKS, of Buffalo, N. Y. Contract for the electrical work was awarded to the WESTERN ELECTRIC CO., of Chicago, Ill. Contract for three 500 HP. soft coal, induced draft gas producers was awarded to the NILES BOILER CO., of Niles, Ohio. Contract for the structural steel work was awarded to the CHAMPION IRON WORKS, Kenton, Ohio. The other contracts will be closed within a few days. S. S. Wyer, Engr., Harrison Bldg., writes us that he has the plans and specifications in preparation in his office for the following engineering contracts: One concrete dam, ten ft. high and approximately 200 ft. long. Plans and specifications for this will be completed so that bids may be received by Oct. 5th. One blast furnace slag handling machine, which will consist of a 1-cu. yd. clam shell bucket, electrically driven trolley hoist, and a steel trestle frame, 200 ft. long. Plans and specifications will be ready for bids by Oct. 10th. One automatic sprinkler system for the following buildings: One 2-story factory building, 155 × 140 ft.; one car shed, 110 × 130 ft.; one ware room, 64 × 435 ft.; one ware room, 80 × 900 ft.. Plans and specifications will be ready for bids by Oct. 15th.

CLEVELAND, OHIO.—J. Milton Dyer, Arch., has been selected to draw plans for an auxiliary high pressure pumping station which is to furnish light, heat and power for the city. Estimated cost, $500,000.

TERRE HAUTE, IND.—It is reported that the Terre Haute Traction & Light Co. will construct a steam condensing tunnel practically under the Wabash River from its power house on North Water St. to a point near the bridge; the estimated cost is several millions. G. F. Wells is Gen. Mgr.

RUSHVILLE, IND.—Bids are asked until Oct. 16, by S. G. Gregg, City Clk., for the following apparatus and equipment for the water and light plant: One 225 HP. 4-valve Corliss type engine, a 160 KW. 3-phase revolving field alternator, a 4-panel switchboard with necessary instruments and series a.-c. street lighting; 33 oil type transformers, capacity 6 to 7.5 KW.; 83 integrating watt meters, capacity 5 to 75 amperes, 35 series a.-c. enclosed street lamps, commercial use. Estimated cost, $10,000.

FRANKFORT, IND.—The contract for erecting a large heating plant for the Frankfort Heating Co., which was recently incorporated, has been awarded to W. H. SCHOTT, of Chicago. Estimated cost of plant is $100,000.

ELGIN, ILL.—It is reported that the Aurora, Elgin & Chicago Railway Co. has announced plans for the improvement of the local lighting system, involving an expenditure of over $125,000. Edwin C. Faber, of Wheaton, Ill., is Gen. Mgr. and Pur. Agt.

MANTENO, ILL.—It is reported that the Southern Pacific Traction Co. has purchased a lot in the Peters addition and will erect a $50,000 relay power station.

PARIS, ILL.—The contract has been awarded to the GENERAL ELECTRIC CO. for installing a magnetite system of electric lighting for the city.

MILWAUKEE, WIS.—The City Council has passed a resolution to purchase the Altpeter site for a municipal electric light plant for $60,000, to be taken from the $150,000 issue of bonds for a lighting plant. A resolution was also passed instructing Charles G. Poetsch, City Engr., to select an electrical expert, subject to confirmation of the Common Council, to supervise the building of the plant. A resolution directing the Board of Public Works to prepare plans and specifications for an electric lighting plant was also passed.

WASHBURN, WIS.—The city will soon vote on buying the water power at Sioux River and erecting a lighting plant at a cost of $53,640.

OCONTO, WIS.—The Oconto Electric Co. will install a new plant.

BELOIT, WIS.—Rebuilding of almost the entire plant and equipment of the street lighting service of the Beloit Water, Gas & Electric Co. will start in a few days, orders having been placed for the machinery, which is expected here this week.

FORT DODGE, IOWA.—The Northwestern Construction Co. has let the contracts for the erection of five substations or power houses, to be at Ankeny, Kelly, Fort Dodge Junction and Fraser. The substations are to be 32 ft. square and about 25 ft. high, and are to be built of fireproof brick. The main station at Fraser is to be 90 × 90 ft.

KEOKUK, IOWA.—A power dam is to be constructed across the Mississippi River here at a cost of $10,000,000. It will, when completed, furnish 211,500 HP. Hugh L. Cooper, 60 Wall St., New York, is Engr.

FREMONT, NEB.—A new electric light station, which will cost $50,000, will be built here as soon as the bonds, recently issued, have been approved.

MARYVILLE, MO.—Burns & McDonnell, 709 Dwight Bldg., Kansas City, have been selected to prepare plans for municipal water-works and electric light plant at Maryville.

LAKE VILLAGE, ARK.—It has recently been decided to install a large water and light plant to be owned and controlled by the city. The contracts for this plant have not been let yet, but will be soon.

SAPULPA, IND. T.—Sapulpa Light & Power Co. has been organized with Ed. C. Reynolds, Pres., and J. A. Boyd, Secy-Treas., to operate electric light plant for which Mr. Boyd has received franchise. Size of building has not been determined, but it is proposed to equip for a capacity of 135 KW. About $20,000 will be invested; neither architect nor engineer selected.

SULPHUR, IND. T.—The Sulphur Light and Power Co. is about to issue $50,000 bonds for the purpose of enlarging its plant. Ralph Wunderlick is Secy. and Gen. Mgr.

LA PORTE, TEX.—The Board of Aldermen, it is reported, has acted favorably on the proposition to erect a water-works and electric light plant, the total cost estimated at $18,000. It is reported that it is proposed to drill a 10-in. well about 530 ft. deep to have a capacity of about 1,000,000 gals. a day, and erect a stand-pipe 12 ft. in diameter and 60 ft. high; also a 50-HP. gasoline engine and a pump with a guaranteed capacity of over 500,000 gals.

SPOKANE, WASH.—FRANK MacKEAN, of Chicago, has been awarded the contract to build a $2,000,000 electric light plant for the Spokane Western Power & Traction Co. to develop 20,000 HP.

ECHO, ORE.—It is reported that the City Council is considering the establishment of a municipal electric light plant, using gasoline engines for motor power.

MOSIER, ORE.—It is reported that the Hood River Electric Light, Power & Water Co. has made a proposition to extend its wires and furnish electricity to this city. E. E. Goff is Mgr.

SAN FRANCISCO, CAL.—The San Francisco Coke & Gas Co. expects to spend about $500,000 in improvements. It is reported that the company has had architects and engineers busy for two months planning a new plant, which will be the medium through which the company will receive and distribute the electric power of the Stanislaus Power & Irrigation Co., with which the local company has entered into a contract.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

BEVERLY, MASS.—Bids are asked until 11 a. m., Oct. 7, by the Commissioners of Essex County for constructing the proposed Kernwood bridge. A 182-ft. steel span draw will be constructed, and about 1,125 ft. of piling will be needed.

SALEM, MASS.—We are officially advised that PITMAN & BROWN CO., Salem, has been awarded contract for constructing bridge over Water River, at $15,965. E. Harrington Co., 60 State St., Boston, are Engrs.

WOONSOCKET, R. I.—Bids are asked until 4 p. m., Oct. 15, by Stephen Magown, Chn. of Com. on Sts. and Bridges, for building an iron or steel bridge in Arnold St. and over the tracks of the New York, New Haven & Hartford R. R. Co. at Woonsocket. Frank H. Mills is City Engr. (Advertised, Engineering News.)

MASSENA, N. Y.—We are officially advised that "THE FOUNDATION CO., 35 Nassau St., New York, is just commencing work on a contract for all piers, abutments and pedestals required for a railroad bridge, and also a highway bridge across the canal furnishing water to the plant of the Pittsburg Reduction Co., at Massena, N. Y. For the railroad bridge there will be two piers, one abutment and two pedestals. The piers are each 12 ft. wide by 36 ft. long. The abutment has a front wall 22 ft. long, and two wings each 36 ft. long, the greatest thickness of the wall beng 23 ft. and the lesser 13 ft. The two pedestals are each 6 × 6 ft. All of these piers are carried to bed rock, a depth of about 30 ft. below water level. All will be 50 ft. high. The pneumatic caisson method will be used. For the highway bridge there are three piers, each 6 × 23 ft., one abutment 12 × 23 ft., and two pedestals each 6 × 6 ft. The depth of sinking and the height of the piers for this bridge are the same as for the railroad bridge. The pneumatic method will also be used for these piers. The contract for the Foundation Co. is with the Pittsburg Reduction Co., who are making extensive improvements at Massena."

MOUNT EPHRAIM, N. J.—Bids are asked until Oct. 8 by the Board Chosen Freeholders, at Camden, for constructing a bridge over Little Timber Creek, on Kings Highway, near Mount Ephraim. George W. White is Chn.

LAWRENCEVILLE, N. J.—Bids are asked until Oct. 9 by the County Board of Chosen Freeholders for constructing two combination steel and concrete bridges, one over stream crossing Lawrenceville macadam road, Lawrenceville Township, and the other over stream crossing Old Camden and Amboy Turnpike, Hamilton Township. Anmi R. Schench is Dir.

HAZLETON, PA.—The contract for erection of the viaduct between the Hollenback Breaker and across the railroad tracks to Pennsylvania Ave. has been awarded by the Wilkes-Barre & Hazleton Ry. Co. to the AMERICAN BRIDGE CO. C. B. Houck is Gen. Supt. and Pur. Agt.

WILMINGTON, DEL.—Bids are asked by the Comptroller of New Castle County until Oct. 9 for constructing a concrete pier under the draw span of the bridge over Smyrna Creek at Flemings Landing. Francis A. Price, 1009½ Market St., Wilmington, is Engr.

STUART, VA.—Bids are asked until Oct. 8 by the Board County Supervisors, J. S. Gaylor, Clk., for constructing a steel truss wagon bridge across Mayo River, near the Danville & Western Ry., to consist of a 60 or 80-ft. span, 12-ft. roadway and two steel cylinder piers filled with cement.

HOWARDSVILLE, VA.—Howardsville Toll Bridge Co., recently organized to build a toll bridge across the James River, has completed organization. Following are the officers: F. H. McCulloch, Pres.; Joseph K. Irvine, Secy., both of Howardsville, and F. B. Nolting, of Richmond, Va., Treas. Bridge contractors are invited to correspond with R. C. Blackford, 29 Law Bldg., Lynchburg, Va.

CHARLESTON, W. VA.—This city has accepted the proposition of the Kanawha Valley Traction Co. to pay one-half the cost of the construction of proposed bridge across the Elk River, replacing the old Keystone structure. Plans for same are now being prepared.

CHARLESTON, S. C.—The Board of Public Works has let the contract for rebuilding the Fortune St. bridge to W. V. COLE, his bid of $8,245 being the lowest of three submitted. For the same work, Kelly & Holmes bid $9,065 and C. S. Washington, $9,412.

ATLANTA, GA.—Bids are asked until Nov. 8 (extension of time) by H. L. Culberson, Chn. County Comrs. Roads and Revenues, Atlanta, and John Awtrey, County Ordinary, Marietta, at Atlanta, to construct a bridge across the Chattahoochee River between Fulton and Cobb Counties, at Power's Ferry, to consist of three steel spans, 153 ft. each, on pin centers, spans to rest upon steel tubular piers and concrete abutments at each end of bridge. This bridge will have a total length of 465 ft. There will be a 16-ft. roadway. Also to construct a bridge across Johnson's Ferry, to consist of three steel spans, 120 ft. each, on pin centers. Total length of bridge, about 365 ft., with a 16-ft. roadway.

FAYETTEVILLE, TENN.—It is reported that the Atlantic Coast Line R. R. Co. will erect steel bridges over the Cape Fear River replacing present structures.

COLUMBUS, OHIO.—Walter Braun, County Surv., is preparing plans under the direction of the County Commissioners for the construction of a bridge to replace the present West Broad St. bridge. It is estimated that the cost of the new structure will be from $10,000 to $12,000. As soon as the plans are completed they will be submitted to the Commissioners, and then bids will be asked.

BRYAN, OHIO.—Bids are asked until 10 a. m., Oct. 15, by the Commissioners of Williams County for constructing substructure of bridge to be built over Beaver Creek.

PORTSMOUTH, OHIO.—Bids are asked until noon, Oct. 5, at the county court-house, for constructing six single-span steel bridges ranging from 20 to 52 ft. long. F. N. Fynes is Audr. Scioto County.

MARTINS FERRY, OHIO.—Bids are asked until Oct. 22 by A. W. Beatty, County Audr., for construction of seven steel bridges, varying in length from 30 to 41 ft.

YOUNGSTOWN, OHIO.—Bids are asked by the County Commissioners, until noon, Oct. 10 for new floor on McGuffey St. viaduct, Youngstown. George M. Montgomery is County Surv.

MOUNT VERNON, IND.—Bids are asked until 2 p. m., Oct. 8, by the Commissioners of Posey County for constructing three steel bridges.

SOUTH McALESTER, IND.—A bridge 280 ft. long and to have an approach 1,000 ft. in length, will be built across Coal Creek. The bridge commissioners are J. J. McAlester, S. Crowl and S. H. Barnes.

MOUNT VERNON, IND.—Bids are asked by the County Commissioners until 2 p. m., Oct. 8, for construction of three steel bridges.

COVINGTON, IND.—The Board of Commissioners of Fountain County has let contract to the ATTICA BRIDGE CO., Attica, Ind., at $4,989, for constructing five bridges. Jas. T. Bell is County Audr.

RACINE, WIS.—It has been decided to construct a permanent bridge connecting Herrick and Lafayette Aves. in Racine.

KANSAS CITY, MO.—The County Court has let a contract to the KANSAS CITY BRIDGE CO., 1108 East 15th St., for a viaduct over the tracks of the Missouri Pacific Ry. system, where 15th St. crosses them at Maywood. The viaduct will be 96 ft. long and will cost $3,390.

The FORRESTER-SWENSON CONSTRUCTION CO., 205 Postal Bldg., Kansas City, has contract, at $14,500, for constructing a rubble-stone arch bridge on the Blue Ridge Road.

WARRENSBURG, MO.—Contract for constructing 39 steel bridges has been let to the OTTUMWA BRIDGE CO., at $17,500.

AUSTIN, TEX.—We have been officially advised that a new bridge over the Colorado River, at Austin, will not be constructed, as noted in issue of Sept. 13, but that a new roof is to be constructed. John O. Johnson is City Clk.

BEAUMONT, TEX.—The contract for erection of the steel work on the bridge that will span the Atchafalaya River in Louisiana for the Colorado Southern, New Orleans & Pacific R. R. Co. has been let to the GRIFFIN CONSTRUCTION CO., of Kansas City, and the work will commence immediately.

HOQUIAM, WASH.—The County Commissioners have decided to build a steel bridge across the Humptulips River to cost in the neighborhood of $12,000. The span will be 200 ft. long.

HIGHLAND, CAL.—The Supervisors have decided to build a bridge over the Santa Ana between Highland and Redlands having four spans, and being 300 ft. long. It will be built on concrete piers, and constructed so that it will withstand any flood that may come down the river.

WINNIPEG, CAN.—Bids are asked by J. G. Latimer, Chn. Com. on Works, care C. J. Brown, City Clerk, until 2.30 p. m., Nov. 20, for erection of steel superstructure for highway bridge over the Red River, at Redwood Ave., Winnipeg. H. H. Ruttan is City Engr.; C. J. Brown is City Clerk.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

MIDDLETOWN, N. Y.—The Hudson Valley Construction Co., Troy, N. Y., was the lowest bidder for constructing steam conduit and piping at the State Homeopathic Hospital in this city. Bid was $7,740, work to be completed in 290 days.

NEW YORK, N. Y.—M. R. Bimberg filed plans for the Stuyvesant Theater, which his new Stuyvesant Theater Co. will build at 109-121 West 44th St. It will cost $175,000. George Keister, Arch., 11 West 29th St., has planned a 4-story structure, 105x90 ft., to seat 1,400 persons. The site is opposite the new Lambs Club.

Plans have been prepared by Horace Trumbauer, Arch., Land Title Bldg., for a 3-story arcade building at 724-730 Broadway, for John Wanamaker.

Plans have been filed for a new 12-story apartment house to be built on Central Park West and 85th St., for the Gotham Building & Construction Co., of which Henry L. Felt is Pres. It is to front 102.2 ft. on the park and 140 ft. on the street, and will have facades of brick trimmed with limestone and terra cotta. It is to cost $950,000.

The following were the lowest bids received Sept. 20 by John H. O'Brien, Fire Comr., for the erection and completion of a new building for engine company 159, to be located on the northerly side of Greenpoint Ave., near Gale St., Borough of Queens: D. J. Ryan, 723 Third Ave., Brooklyn, $60,397; Wm. P. McGarry, 236 Huron St., Brooklyn, $53,841; Thos. Cockerill & Son, 147 Columbus Ave., $59,900.

The following bids were received Sept. 25 by the Board of Health for estimate for furnishing all the labor and furnishing and erecting all the materials necessary or required to erect and complete a measles pavilion on the grounds of the Kingston Ave. Hospital, Kingston Ave. and Fenimore St., Boro. of Brooklyn: Jas. MacArthur, 22 Ormond Pl., Brooklyn, $188,673; Guidam & Garlardi, 1 Madison Ave., $206,000; D. J. Ryan, 723 Third Ave., Brooklyn, $194,500; T. G. Carlin, 215 Montague St., Brooklyn, $185,998; W. G. Eldred, $199,995; R. E. Heningham, 1 Madison Ave., $192,000; P. J. Brennan & Son, 949 Broadway, $183,000; C. H. Peckworth, 415 Hudson St., $197,917; Thos. Cockerill & Son, 142 Columbus Ave., $189,500.

UTICA, N. Y.—Bids are asked until 3 p. m., Oct. 24, by the State Commission in Lunacy for the erection of an acute hospital building. T. E. Carr is Secy. (Advertised, Engineering News.)

RAHWAY, N. J.—THOMAS PRIOR & SON, Trenton, N. J., have been awarded the contract for an addition to the State Reformatory at this place. The new building proper will be of brick and stone. The cell construction will be entirely of steel, and each cell will be fitted with the new Pauli locking device. The contract amounts to $261,000.

TRENTON, N. J.—State Board of Education has ordered plans and specifications prepared for the new state normal school which is to be erected at Montclair Heights, at a cost of $275,000. The building will be built on the mission style, will be 350 ft. in length and will have surrounding it 25 acres of land. The structure will be of concrete and steel, and will be modern in equipment.

PITTSBURG, PA.—A 5-story building, to cost $125,000, is to be erected on the site of the old Newsboys' Home, Old and Forbes Aves. Plans have been prepared by Alden & Harlow, Archs. The new building is to be built of terra cotta fireproofing and brick.

The National Reform Association has decided to erect a new $300,000 building on Eighth St., which will be used as the national headquarters. The building will be a 12-story structure.

WILMINGTON, DEL.—The Young Men's Christian Association of this city is asking for competitive sketch plans for a Y. M. C. A. building, costing $200,000, at Tenth and Orange Sts. The building will be of brick with stone trimmings, four stories high, 100 × 85 × 75 ft.

FORT DUPONT, DEL.—Bids are asked untill 11 a. m., Nov. 1, by Capt. Louis F. Garrard, Jr., Q. M., for erecting a frame quarters for bachelor officers. (Advertised, Engineering News.)

ANNAPOLIS, MD.—Bids are asked until noon, Oct. 15, at the office of the Secretary of the Navy, Washington, for the construction of an experimental station to be situated on the Severn River, opposite the Naval Academy, Annapolis, Md. The building will cost about $250,000, and will be built of granite or concrete. Ernest Flagg, 35 Wall St., New York, is Arch.

BALTIMORE, MD.—The State Board of Public Charities, consisting of Edwin Warfield, Gov.; Gordon T. Atkinson, Comptroller; Murray Vandiver, Treas., has commissioned Baldwin & Pennington, Archs., Professional Bldg., to prepare plans for a state tobacco warehouse to be erected at Conway, Light, Charles and Perry Sts., at a cost of $250,000.

WASHINGTON, D. C.—The GEO. A. FULLER CO., Munsey Bldg., Washington, has received contract and will soon commence work on a $150,000 theater and office building at Ninth St., near F St., N. W. The owner is the Washington Theater Co., and the lessee Weber & Rush, N. Y. The building will be brick and stone, of fireproof construction, three stories high, 80 × 200 ft., with two stories of offices in the front of the building. The seating capacity of the theater will be 2,000. J. B. McElfatrick & Son, 1402 Broadway, New York, are Archs.

W. E. SPEIR CO., 1342 New York Ave., Washington, has been awarded contract for the construction of a $100,000 apartment house for Dr. Alonzo O. Bliss, Bliss Bldg., Washington, to be situated at First and B Sts., N. W., and to be of brick and stone, reinforced concrete, five stories high, 50 × 125 ft. A. Goenner, Bliss Bldg., Washington, D. C., is Arch.

Bids are asked by Capt. John Stephen Sewell, Constructing Officer, until Oct. 22, for the construction of a guard house at the U. S. Soldiers' Home at Washington.

Perry Belmont, New York, will erect dwelling at New Hampshire Ave., 18th and R Sts., N. W., to cost about $300,000. It is reported that French architect is making the plans and specifications.

WASHINGTON, D. C.—Bids were opened Sept. 29 at the office of Bernard R. Green, Supt. of Construction of the U. S. National Museum, Washington, for excavation and concrete foundations and pier work for the south pavilion of the new building for the National Museum Building, Washington. Edmund Saxton, 841 Bladensburg Rd., Washington, $49,500; Ambrose B. Stannard, New York, $44,300; Cranford Paving Co., 2620 E St., N. W., Washington, $52,700.

BRUNSWICK, GA.—The Atlanta, Birmingham & Atlantic Ry. Co. is to erect a 5-story office building to cost $250,000, at Walton and Fairlee Sts. It is to be of brick. C. B. Wilburn is Gen. Mgr.

SAVANNAH, GA.—Bids are asked by the Y. M. C. A. Building Committee until Oct. 15 for the labor and materials for the erection of a building in this city.

WAYCROSS, GA.—Bids are being received for hotel to be erected by the Waycross Hotel Co. at a cost of $100,000, for which H. J. Klutho, Jacksonville, Fla., is Arch.

The Atlantic Coast Line R. R. Co. will construct in addition to the car and locomotive shops a coal-storage plant with a capacity for storing 40,000 tons of coal. The building will be constructed of brick and equipped with electric coal conveyors and electrical machinery for loading and unloading coal cars. About $65,000 will be expended. E. B. Pleasants, Wilmington, N. C., is Ch. Engr.

COLLINS, MISS.—The Board of Supervisors has accepted the plans of William S. Hull, Arch., of Jackson, for the $75,000 court house which is to be erected here.

NEW ORLEANS, LA.—The Columbian Realty Co., recently organized to erect a building for the Knights of Columbus, has purchased site 100 × 120 ft., on which it is proposed to erect a three-story structure. It is estimated that about $200,000 will be expended on site and building.

SHREVEPORT, LA.—Bids are asked until Dec. 20 by C. G. Rivers, Comptroller, for the plans and specifications for the erection of a city hall at Milam and Louisiana Sts., which is to cost not more than $75,000.

MEMPHIS, TENN.—A meeting of the executive officers of the railroads entering Memphis was held recently to consider plans for a union station. Representatives of the Missouri Pacific, Southern, Illinois Central, Nashville, Chattanooga & St. Louis, Louisville & Nashville, St. Louis Southwestern, Chicago, Rock Island & Pacific, St. Louis & San Francisco, and the Union Railway of Memphis were present, and a sub-committee was appointed to consider various details and report at another meeting. The new passenger terminal structure is estimated will cost about $3,500,000.

CHATTANOOGA, TENN.—L. J. Sharp & Co. will erect a modern livery stable at Ninth and A Sts. at an estimated cost of $75,000.

LOUISVILLE, KY.—The SELDEN-BRECK CONSTRUCTION CO., Fullerton Bldg., St. Louis, Mo., has contract to erect store building for the Stewart Dry Goods Co., for which Kenneth McDonald, 600 Equitable Bldg., is Arch.; 10 stories, 108.6 × 180 ft.; fireproof construction; cost $400,000.

CINCINNATI, OHIO.—The College Hill Realty Co., recently organized with a capital stock of $50,000, has purchased a tract of land in College Hill on which a $100,000 flat building, containing in all about 32 apartments, will be erected. Peter G. Thomson, John E. Bruce, J. L. Pierson, H. G. Pounsford, E. N. Wild and Frank H. Simpson are interested.

The plans of J. Walter Stevens, Arch., 905 N. Y. Life Bldg., St. Paul, Minn., for the new 4-story pressed brick and cut stone, fireproof high school building, to be built here, have been accepted. Estimated cost, $500,000.

WARRENSVILLE, OHIO.—Bids are asked by J. B. Vining, Secy. Board Public Service, until noon, Oct. 8, for boiler house, service quadrangle, north dormitory and dining hall and south dormitory and dining hall.

CRAWFORDSVILLE, IND.—The Acting Secretary of the Treasury has approved the plans and general outline for the new Federal building in this city. Advertising for bids and letting the contract will be the next step.

INDIANAPOLIS, IND.—Dr. R. C. Light, Secy. White City Amusement Co., has ordered plans for the construction of a natatorium 600 × 200 ft., with a cement basin from 3 to 10 ft. in depth.

The Board of Trustees of the Woman's Prison has ordered plans for a new dormitory and other improvements. Bids will be in order soon. Mrs. J. B. Elam is Chn.

PORT HURON, MICH.—Bids are asked until Oct. 15 by the Board of Education for the erection of five 2-story brick and stone buildings. Geo. L. Harvey is Arch. W. F. Wagensut is City Clk. Estimated cost, $75,000.

CHICAGO, ILL.—Plans have been completed by David Robertson, Arch., 109 Randolph St., and work will soon be started on the erection of a new theater which is to be built at 63d and Halsted Sts. for the Englewood Theater Co. Designs show a 1-story building, covering an area of 28 × 130 ft. It will be of fireproof construction and have the latest improvements and appliances in all lines. The cost will be about $120,000.

The First National Bank of Englewood, at present at 467 West 63d St., will soon have work started on the erection of a new structure which is to be built at 443 West 63d St., from designs by J. Barnes, Arch., 153 La Salle St. Plans show a 3-story building covering an area of 52 × 150 ft. It will be of fierproof construction, handsomely finished and decorated and provided with the latest improvements and appliances in all lines. The cost will be about $100,000.

R. T. Newberry, Arch., 184 La Salle St., has awarded the general contract for a warehouse, to be erected at 1706-14 Wabash Ave., for the Stevens estate, New York, to JOHN M. EWEN CO., 217 La Salle St. It is to be seven stories high, 100 × 167 ft., built of brick and stone and fireproof construction; $240,000.

Marshall & Fox., Archs., 164 Dearborn St., are taking new bids for a clubhouse, to be erected on Plymouth Pl., between Jackson Boulevard and Van Buren St., for the Chicago Automobile Club. To be six and three stories high, 100 × 100 ft., built of brick and stone. Estimated cost, $150,000.

The same architects are also taking new figures for a musical college, to be erected at 246-8 Michigan Ave., for the Chicago Musical College, 201 Michigan Ave. It is to be six stories high, 65 × 150 ft., built of marble and stone. Estimated cost, $300,000.

D. H. Burnham & Co., Archs., 83 Wabash Ave., have completed plans for a field house to be built in one of the new small parks at 46th Pl. and Princeton Ave., known as No. 4 square, for the South Park Commissioners. It will cost $70,000 to $80,000. Bids are now being received.

Holabird & Roche, Arch., Monadnock Block, have prepared plans for 10-story building, 110 × 40 ft., for the Remington Typewriter Co., to be erected at a cost of $200,000 on Dearborn St.

DULUTH, MINN.—Cass Gilbert, Arch., 524 Endicott Bldg., St. Paul, Minn., is preparing sketches for a handsome pressed brick and cut stone addition to the St. Louis Hotel here. Estimated cost, $75,000.

FARGO, N. DAK.—Bids are asked until 3 p. m., Oct. 17, by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., for the installation of an electric passenger elevator in the U. S. Post Office and Court House in this city.

BROOKINGS, S. DAK.—A new $100,000 court house for Brookings County is declared to be an urgent necessity by the County Commissioners, and a proposition for issuing 20-year 4% bonds to this amount will be submitted to the voters of the county at the general election on November 7.

INDEPENDENCE, MO.—Jackson County will hold an election about November 15 or 20 to vote on a bond issue for improvements at the County Poor Farm. Plans have been prepared by Root & Siemens, Archs., 701 Postal Telegraph Bldg., Kansas City, Mo., for building to accommodate 450 persons and provide for four 3-story dormitories, a building for a dining-room and kitchen, and an administration building. About $250,000 will be required for the erection and complete equipment. Geo. F. Damon, Kansas City, Mo., is Gen. Secy. of the Associated Charities.

KANSAS CITY, MO.—Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 15, for the installation of a hydraulic mail lift in the U. S. Post Office and Court House in this city. (Advertised, Engineering News.)

KANSAS CITY, MO.—Jarvis Hunt, Arch., 100 Jackson Boulevard, Chicago, Ill., has completed plans for the new bank and office building, to be erected here for the National Bank of Commerce. To be 15 stories high, 115 × 160 ft., built of terra cotta, brick, stone and steel.

LITTLE ROCK, ARK.—WM. J. BALSER, of Franklin, Ind., has been awarded a contract for the plastering of the Arkansas State Capitol Building, now under construction by Caldwell & Drake, of Columbus, Ind. It will require two years to complete the plastering job.

MINERAL WELLS, TEX.—Robert Wiley, of Ballinger, will erect a 3-story brick hotel, at a cost of $75,000. Contract let.

SHERMAN, TEX.—Bids are asked by James Knox Taylor, Supervis. Arch., Treasury, Dept., until 3 p. m., Oct. 22, for the installation of a conduit and electric wiring system for the U. S. Post Office and Court House at this place. (Advertised, Engineering News.)

LOS ANGELES, CAL.—F. H. Holmes, an Eastern capitalist, will erect an apartment hotel at Sixth St. and Westlake Ave. to cost $300,000. It is to be a 5-story building, 160 × 190 ft.

OAKLAND, CAL.—The Arcade Realty Co. is to erect a hotel at San Pablo Ave., Grove and Hobart Sts., at a cost of $109,200. J. C. Newsom is Arch.

SAN FRANCISCO, CAL.—The plans of the Y. M. C. A. building which is to be erected here are being prepared by McDougall Bros., Archs., 721 Devisadero St. Details noted on Sept. 20.

The Mutual Life Insurance Co. has just awarded to FRANK B. GILBRETH the contract to tear down and rebuild the six upper floors of their 9-story building at Sansome and California Sts., San Francisco. Owing to the condition in which the structure was left by the earthquake and fire it will be impossible to estimate the cost of the operation until the work has advanced sufficiently to allow the making of an accurate report as to the extent of the damage.

SAN FRANCISCO, CAL.—The Real Estate Co., John Partridge, Pres., will erect a 6-story reinforced concrete building of fireproof construction on Mission St.

The contract for the erection of the 8-story Class A building at Kearney St. and Union Sq., for the Luning Estate, has been awarded to the THOMPSON-STARRETT CO. The same construction company has secured the contract for the rebuilding of the Sherman & Clay building on Kearny and Sutter Sts., which will cost about $175,000. This, too, will be an 8-story building, Class A.

Plans have been completed by William Curlett, Arch., Phelan Bldg., and contract has been awarded for the construction of the building for the Macdonough Estate Co., on Kearny St., between Bush and Pine Sts. The building will be constructed under the supervision and general management of Baldwin & Howell, and will be completed in about eight months. The cost of the structure will be between $85,000 and $90,000.

SANTA ROSA, CAL.—The Santa Rosa Chamber of Commerce, at its annual meeting, held recently, adopted a resolution indorsing the proposition of the Board of Supervisors to bond the county for $300,000 for the erection of a court house. The old structure was damaged by the earthquake April 18, and plans have been prepared by several of the state's best architects for a splendid new building.

SAN FRANCISCO, CAL.—Bids are asked by E. C. Leffingwell, Secy. Board of Education, until 3 p. m., Oct. 11, for raising the Girls' High School building at Geary and Scott Sts.

OTTAWA, ONT.—Mr. Chase, Pres. of the Quebec Association of Architects, and Mr. Burke, Pres. of the Ontario Association, will be in town soon by appointment with David Ewart, Ch. Arch. of the Public Works Department. These three experts have been commissioned by Hon. Mr. Hyman, Minister of Public Works, to arrange details of the competition for plans of the proposed new departmental block on MacKenzie Ave. In the competition there will be first, second and third prizes awarded. Soon the plans will be ready of the wing which it is proposed to construct on the west side of the Parliament buildings, and tenders will then be invited for the work. The proposition is to let the contract as soon as possible for the stone work, and to decide upon details of the interior arrangements after consultation with a committee of members of Parliament.

MONTREAL, QUE.—The Canadian Express Co. has been granted a permit to construct a 10-story office building at the corner of Youville Sq. and St. Paul St. The new structure is to cost $250,000. The front of the structure will be cut sandstone. Building operations are to be commenced immediately.

NELSON, B. C.—Bids are asked until Oct. 15 by F. C. Gamble, Engr. of Pub. Wks., for the erection of a court house in this city.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked by Wm. B. Ellison, Comr. of Water Supply, Gas and Electricity, until Oct. 10 for laying 12-in. water main in Broadway, between 230th and West 242d Sts., Boro. of the Bronx.

BERGEN, N. Y.—BAILEY, JOHNSON & SAUNDERS, INCORPORATED, of Buffalo, N. Y., have been awarded the contract to install a water-works system at Bergen.

TOMHANNOCK, N. Y.—We are officially advised that the reported improvements to the Tomhannock water supply system consist of reconstructing the spillway dam apron and canal leading from the dam. This work was made necessary by the excessive rainfall on drainage area and the consequent destruction of the ports of the apron and canal. Changes are contemplated for the highway crossing over the canal. It is expected that bids will be asked shortly. E. L. Ginnes is Ch. Engr. Bureau of Water Supply, Troy.

ATLANTIC CITY, N. J.—It is reported that bonds to the amount of $300,000 for the improvement of the water department of this city are to be issued. Lincoln Van Gilder is Supt. Water Dept.; J. W. Hackney is City Engr.

RED HILL, PA.—It is reported that a water-works system, to cost $20,000, will be installed at Red Hill. J. P. Kline is Boro. Secy.

READING, PA.—A filter plant, to cost $150,000, is to be built at the Bernharts reservoir. The construction of an additional pipe line is also recommended. Emil E. Nuebling is Supt. Water Dept.; Elmer H. Beard is City Engr.

BETHLEHEM, PA.—The Bethlehem Steel Co. has awarded to NOLAN BROS. the contract for laying a water supply pipe line from the river to a proposed reservoir on the Levi T. Lynn farm and the building of a reservoir there.

WAYCROSS, GA.—J. A. Lott, Chn. of the Water-Works Comn., is now arranging plans for the extension of the city's water mains and sewerage system. About $35,000 will be expended for this work.

HAZELHURST, GA.—See under Light and Power Plants.

MEMPHIS, TENN.—It is reported that the city will make improvements to water-works system, for which $200,000 of bonds were recently issued. Wirt F. Wells is Pres. of the Memphis Water Comn.

LIMA, OHIO.—Bids are asked until noon, Oct. 10, by the Board of Public Service for installing pumps capable of putting 5,000,000 gallons of water per day into the city distributing mains against a normal pressure of 40 lbs., and so equipped as to provide for running the pressure up to 70 lbs. to meet the requirements of fire pressure. L. L. Crumrine is Secy.

BRYAN, OHIO.—The AMERICAN DIESEL ENGINEERING CO. has the contract for constructing a water-works plant. F. W. Radabaugh, Cy. Clk.

CINCINNATI, OHIO.—It is reported that the KERCHUER CONSTRUCTION CO., Eighth and Plum Sts., Cincinnati, have been awarded contract, at $28,360, for laying pipe and improving water system on Eggleston Ave., from Eighth to Third St., and on Third St., from Eggleston Ave. to the Third St. Reservoir. Augustus Herman is Pres. of Bd. Trustees, Comrs. of Water-Wks.; C. H. Benzenburg is Engr.

The following were the only two complete bids received Sept. 28 by the Board of Trustees, Commissioners of Water-Works, for installing operating machinery of the filtration plant and settling reservoirs at Cincinnati: Pittsburg Filter Co., Pittsburg, Pa., $68,077; Kerchuer Construction Co., Eighth and Plum Sts., Cincinnati, $85,277.

CHICAGO, ILL.—Bids are asked by William L. O'Connell, Comr. Pub. Wks., until 11 a. m., Oct. 10, for constructing a water pipe tunnel about 350 ft. in length, including two shafts, under the north branch of Chicago River, at Indiana St., Grand Ave. H. O. Nourse is Supt. Bureau of Water; John Erickson is City Engr.

SPENCER, IOWA.—The DES MOINES BRIDGE & IRON CO. has been awarded contract to construct a 70,000-gallon steel tank on 100 ft. steel tower, at $4,800. R. L. Taylor is City Clk.

KELLIHER, MINN.—It is reported that the W. P. WIND ENGINE PUMP CO., of Batavia, Ill., has secured the contract for constructing tank and tower for the water-works, at $2,900, and I. D. O'CONNELL, of Duluth, for water mains and power-house machinery, at $5,200. J. W. Murray is Village Recdr.

CHISHOLM, MINN.—THE PITTSBURG FILTER MFG. CO., Pittsburg, Pa., has been awarded contract for constructing filter plant, at $14,850, in Chisholm. W. G. Shaw is City Recdr.

FORT SNELLING, MINN.—Plans, specifications and bidding sheet for proposed addition to pump-house at Fort Snelling are on file at office of Engineering News, New York. Bids are asked until Oct. 10.

ATWOOD, KAN.—It is reported that J. L. WHITE, of Clear Lake, S. Dak., has secured the contract for constructing a system of water-works at Atwood, at $10,000. Fred. Randall is City Clk.

OMAHA, NEB.—ARNOLD C. KOENIG, of Omaha, has secured contract, at $8,000, to install water system at Fort Omaha.

ROLLA, MO.—On Sept. 28 the citizens voted affirmatively upon the question of bonding the city for $50,000. The money thus obtained will be used for improvements to the water-works, sewer and electric light systems.

LA PORTE, TEX.—See under Light and Power Plants.

SEATTLE, WASH.—Bids are asked until Oct. 6 for constructing water mains on Ewing St. Estimated cost, $10,500. C. B. Bagley is Secy. Bd. Pub Wks.

SAN FRANCISCO, CAL.—The project of the Bay Cities Water Co. to supply San Francisco from the high Sierra lakes, the South Fork of the American River and the North Fork of the Cosumnes River, with a daily minimum of 60,000,000 gallons of pure water, capable of increase to a daily minimum of 200,000,000 gallons, or sufficient for a city of 2,000,000 people, was chosen Sept. 20 by the special water committee of the Board of Supervisors for recommendation to the Board at the next meeting, as the city's future source of water supply. The company offers its present water and power rights in the Sierra, its present plant and to complete the same so that it can deliver the amounts above set forth at the point of departure of the pipe lines across California's basin to San Francisco, for $10,500,000.

BLACK DIAMOND, CAL.—We are officially advised that this town will be bonded for about $15,000 or $20,000, in order that it may install a complete separate fire system, using 6-in. mains and pumps driven either by electricity or gas engines.

WHITEROCKS, UTAH.—Bids are asked until 2 p. m., Oct. 31, by the Commissioner of Indian Affairs, Washington, for constructing a water system at the Uintah and Ouray Agency, Utah. Capt. G. G. Hall is Acting U. S. Indian Agent, Whiterocks.

DALHOUSIE, N. B.—Bids are asked until 7.30 p. m., Oct. 30, by Alexander J. Labec, Town Clk., for laying about 17,000 lin. ft. of 7, 10 and 12-in. conduit pipe. Willis Chipman, 105 Bay St., Toronto, is Engr.-in-Charge.

ALMONTE, ONT.—McDonald & McRae, Engrs., Ottawa, have begun the survey of the streets of this town, with the view of installing a water-works system here.

WINNIPEG, MAN.—It is reported that the following contracts have been awarded: To WILLIAM JACKSON & CO., Glasgow, Scotland, for water pipe, $4,021; to T. B. McVITTY & SON, St. John, N. B., gate valves, $4,581; to CANADIAN FAIRBANKS CO., Winnipeg, for hydrants, $9,375, and to NATIONAL WATER CO., Chicago, Ill., for meters.

MOOSOMIN, SASK.—We are officially advised that the MACOMB SEWER PIPE CO., Macomb, Ill., has contract to supply sewer pipe, at $3,554, and the MONTREAL PIPE FOUNDRY CO., Montreal, to supply water pipe, at $4,646. The bids for gasoline engines and work were referred to Willis Chipman, Engr., 105 Bay St., Toronto, Ont. John Smithers is Secy.

VICTORIA, B. C.—The City Council proposes to submit a by-law for $300,000 for water-works purposes.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

PEABODY, MASS.—The Sewerage Commissioners have awarded contract to W. B. BYRNE, of Boston, to build sewers, at $13,774.

BEVERLY, MASS.—This city contemplates laying 1,500 ft. of outfall sewer beneath Beverly Harbor. William J. Berry is City Engr.

BOSTON, MASS.—The two lowest bids received Sept. 21, for constructing the Stony Brook sewer were Metropolitan Contracting Co., 95 Milk St., $40,965, and Patrick McGovern, $44,170.

OSWEGO, N. Y.—Bids are asked by Lieut. Henry H. Hall, Constr. Q. M., until 11 a. m., Oct. 6, for furnishing labor and materials for constructing storm water drain at Fort Ontario.

AMSTERDAM, N. Y.—Bids are asked by the Sewer Commissioners for a storm sewer on Schuyler St., about 2,000 ft. in length, from 15 to 30 ins. in diameter. F. E. Crane is City Engr.

ST. JOHNSVILLE, N. Y.—The Village Board on Sept. 22 awarded to A. M. BANKER, of Gloversville, contract for constructing a system of sanitary sewers, at $25,799.

AUBURN, N. Y.—We are officially advised that on Sept. 18, J. C. HEALY, of Auburn, was awarded contract to construct the Genesee and Garrow Sts. sewer, at $4,952. J. W. Ackerman is Engr.

RAHWAY, N. J.—Bids are asked by the Common Council until 8.30 p. m., Oct. 9, for constructing 12-in. pipe sewer. Franklin Marsh is City Surv.

EMSWORTH (Allegheny post-office), PA.—Bids are asked by John McBride, Boro. Engr., 516 Fitzsimons Bldg., Pittsburg, Pa., until 4 p. m., Oct. 9, for constructing a main sewer and two outlets to the Ohio River.

MOUNT CARMEL, PA.—The WILKES-BARRE CONSTRUCTION CO., Wilkes-Barre, Pa., has secured contract to construct sewer system at Mount Carmel.

BALTIMORE, MD.—The bids received Sept. 19 by the Board of Awards for constructing new storm water sewers have been referred to the Sewerage Commission. The bids range from $153,000 to $312,000. The estimate of Calvin W. Hendrick, Ch. Engr., was $200,000.

WASHINGTON, D. C.—Bids were opened Oct. 1 at the office of the Commissioners of the District of Columbia for furnishing (a) 7,000 ft. 24-in. terra cotta pipe, and (b) 3,600 ft. 24-in. pipe. Bids were as follows: American Sewer Pipe Co., Pittsburg, (a) 87¾ cts. per lin. ft., (b) 67½ cts. per lin. ft.; Mack Mfg. Co., Land Title Bldg., Philadelphia, (a) 90 cts., Pennsylvania R. R. delivery, 92 cts. Baltimore & Ohio R. R. delivery; (b) 88 cts. Pennsylvania R. R., 90 cts. Baltimore & Ohio.

The Commissioners of the District of Columbia have issued an order for the extension of sewers to Randle Highlands. A few days ago they issued an order for the extension of the city water mains.

WASHINGTON, D. C.—Bids were opened Oct. 2, at the office of the District Commissioners, for sewer work in the District of Columbia. Bids were as follows: (a) Colbert & McNamara, Washington; (b) John S. Tolbert, Washington; (c) W. F. Brenizer, Washington; (d) Stewart & Bratton, Washington; (e) E. G. Gummel, Eckington. Ordinary excavation, per cu. yd.: (a) 99 cts., (b) 70 cts., (c) 98 cts., (d) $1, (e) $1. Sewer brick masonry: (a) $16, (b) $20, (c) $20, (d) $18, (e) $23. Rock excavation: (a) $3.50, (b) $4, (c) 3.50 (d) $5 (e) $3. 24-in. pipe, per lin. ft., (a) $1.06, (b) $1.40, (c) $1.49, (d) $1.50, (e) $1.55. 21-in. pipe, (a) 91 cts., (b) $1.17, (c) $1.41, (d) $1.45, (e) $1.56. 15-in. pipe, (a) 76 cts., (b) $1, (c) $1.11, (d) $1, (e) $1.25.

EATONTON, GA.—The contract for installing the system of sewerage for this city has been let to E. C. DAVIS, of Griffin, Ga. Work will begin as soon as necessary arrangements can be made.

COVINGTON, TENN.—The following bids were received for the construction of sewers in this city: P. H. PORTER Clinton, Ky. (awarded contract), $14,146; Howard Neely, Chattanooga, Tenn., $14,177; Green & Ewing, Chicago, $14,764; Bosler & Flynn, Chattanooga, Tenn., $19,541; Miller Paving Co., Memphis, Tenn., $15,463; Sullivan & Long, Nashville, Tenn., $15,935; Walter Coonan, East St. Louis, Ill., $25,882.

PAINESVILLE, OHIO.—We are officially advised that BALDWIN BROS. & GRAHAM, of Cleveland, Ohio, have secured contract for installing storm water sewer on South St. Clair St., at $4,187. H. P. Cummings is City Engr.

AKRON, OHIO.—The Council passed an ordinance providing for construction of a main sewer in West Market, Valley, Aqueduct and other streets, to cost about $14,000. J. W. Payne is City Engr.

LOCKLAND (Cincinnati Post Office), OHIO.—H. A. STRAUSS, of Wheeling, W. Va., is reported to have secured the contract for constructing a sewer system in Lockland.

LANCASTER, OHIO.—Bids are asked by Board of Public Service, George S. Cunningham, Clk., until noon, Oct. 12, for furnishing the necessary labor and material for constructing sewers in a part of Stormwater Sewer District No. 1. Bids will be received for either cement or vitrified sewer pipe.

CANTON, OHIO.—Bids are asked by the Board of Public Service until Oct. 5 for constructing storm water sewers, sanitary sewers, etc.

CONNEAUT, OHIO.—The Board of Public Service has let contract to H. A. STRAUSS, Wheeling, W. Va., at $8,995, for the construction of 8,500 ft. of sewers, with the necessary manholes, flush tanks, in part of Sewer District No. 4. T. F. Lininger is City Engr.

LORAIN, OHIO.—Bids are asked for constructing a sub-main sewer from Charles to Branch Sts.

Contract has been let to CHARLES DOLL for constructing a lateral sewer in a new allotment.

MADISON, IND.—We are officially advised that H. C. Innes, C. E., Station R, Cincinnati, Ohio, has been engaged to prepare complete plans and specifications for sanitary and storm water sewers.

INDIANAPOLIS, IND.—We are officially advised that contracts will shortly be let for constructing sewers as follows: Brightwood sewer, estimated cost, $200,000; Pleasant Run intercepting sewer, $140,000; North Indianapolis sewer, $150,000. Plans have not yet been finished. Blaine H. Miller is City Engr.

GREENVILLE, MICH.—Notice has been given that it is the intention of the Common Council of the city of Greenville to construct a sewer on Lafayette St., south, from Beaton to Judd Sts.; on Franklin St., south, from Washington to Union Sts., and laterals on Benton, Oak and Union Sts., in Sewer District No. 10. Byron C. Tower is City Clk.

CHARLESTON, ILL.—Bids are asked until Oct. 15 by C. W. Roberts, City Clk., for constructing about 1,500 ft. 24-in. tile sewer in Fourth St. W. B. Watson is City Engr.

CHICAGO, ILL.—Bids are asked until 10.15 a. m., Oct. 8, by the Board of Local Improvements, for adjusting sewers in Jay and North Robey Sts. and Kedzie Ave., and for constructing vitrified tile pipe sewers in various other streets. George A. Schilling is Pres.

QUINCY, ILL.—PETER SIMMONS has secured the contract for constructing sewers between Broadway and Cedar St. and Sixth Ave. and 12th St., at $19,895. The work will consist of 15,788 ft. 18-in. pipe sewer, 462 ft. 15-in., 834 ft. 12-in. and 1,829 ft. 10-in., with 75 manholes and seven flush tanks. The other bidders were: Henry Rees, $20,243, and Ebert & Shannahan, $20,609. F. L. Hancock is City Engr.

CASEY, ILL.—The Casey Water, Power & Mineral Co. has awarded contract to construct about three miles of sewers in Casey to the PARIS BRIDGE & PIPE CO., for $22,500.

FOND DU LAC, WIS.—Bids are asked until Oct. 9 by the Board of Public Works, for constructing a storm sewer in Park Ave. G. H. Stanchfield is City Engr.

FORT DODGE, IOWA.—Bids are asked by L. Fessler, City Clk., until 5 p. m., Oct. 15, for constructing about 590 ft. of 10-in. pipe sewer.

DES MOINES, IOWA.—Bids are asked by the Board of Public Works, City Hall, until 11 a. m., Oct. 11, for constructing the Grand View sewer system.

Bids are asked by the Board of Public Works, City Hall, until 11 a. m., Oct. 12, for constructing sewers as follows: Ninth, Tenth and Lincoln Sts. sewer, 1,350 lin. ft. of 12-in. vitrified clay pipe sewer. Sewer in High St., 1,047 lin. ft. 12-in. vitrified clay pipe sewer. Sewer in Clark St., 611 lin. ft. vitrified clay pipe sewer. Sewer in West 34th St., 301 lin. ft. vitrified clay pipe sewer. George D. Dobson is City Engr.

We are officially advised that the J. W. TURNER IMPROVEMENT CO., of Des Moines, has secured contract, at $26,155, to construct the North Branch Ingersoll Run Sewer.

McCOOK, NEB.—Bids are asked by W. A. Middleton, City Clk., until Oct. 8 for the construction of all sewers and appurtenances in Sewer District No. 1.

YANKTON, S. DAK.—Bids are asked by A. D. Russell, City Clk., until 8 p. m., Oct. 15, for construction of about 10,000 ft. of pipe sewer, with manholes, flush tanks.

SIOUX FALLS, S. DAK.—We are officially informed that $10,000 has been appropriated for extending stone sewer. The work, when completed, is estimated to cost $30,000. L. E. Hendrick is City Engr.

JOPLIN, MO.—J. F. McCARTHY, of Joplin, has been awarded the contract for constructing a sewer in Willow Branch Sewer District No. 29. W. W. Van Frank is City Engr.

PARIS, TEX.—E. H. McCuistion, Mayor, states that "the City of Paris contemplates installing a sewer system covering about one square mile of territory, at an early date. Since the plans have been prepared, however, a new railroad has been projected which comes in over the territory contemplated for the sewer. Just what its grades are I am unable to say just at this time, and for that reason the further construction of the sewer has been delayed until that matter is definitely known." Hugh M. Price is City Engr.

WEATHERFORD, TEX.—The contract for constructing a $20,000 sewerage system has been awarded to HAMILTON BROS., of Fort Worth, Tex.

DENVER, COLO.—We are officially advised that the following are the bids received Sept. 22 for grading and constructing vitrified pipe sewers in the East Side Improvement District No. 1, Denver: The Colorado Co., Nassau Bldg., Denver, $120,557; the Gaffy & Keefe Construction Co., 311 Exchange Bldg., Denver, $120,420; J. Fred Roberts, 1850 16th St., Denver, $116,190.

SAN FRANCISCO, CAL.—The BURRILL CONSTRUCTION CO. has secured contract, at $90,530, for sewer work in San Francisco.

MOOSOMIN, SASK.—We are officially advised that the MACOMB SEWER PIPE CO., Macomb, Ill., has contract for supplying a quantity of pipe to this town. Willis Chipman, 105 Bay St., Toronto, Ont., is Des. Engr.; H. G. McVean is Res. Engr.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked by John McG. Woodbury, Comr. St. Cleaning, until Oct. 9, for furnishing materials and removing snow and ice during the winter season of 1906-7 in the Boroughs of Manhattan, Bronx and Brooklyn.

UTICA, N. Y.—BROCKWAY & SQUIRES have secured the contract for removal of ashes, rubbish and street dirt for five years at a total of $53,500, and WILLIAM PRICHARD has secured the contract for removal of garbage for five years at a total of $78,000. Bids were received Sept. 21.

FORT MOTT (Salem post-office), N. J.—Bids are asked by Capt. Louis F. Garrard, Jr., Q. M., until Oct. 20, for constructing crematory building and garbage crematory at Fort Mott.

DELAWARE CITY, DEL.—Bids are asked until 11 a. m., Oct. 29, by Capt. Louis F. Garrard, Jr., Q. M., for constructing a crematory building and garbage crematory at Fort Du Pont, Del. (Advertised, Engineering News.)

CHATTANOOGA, TENN. — Chattanooga Sprinkling Co. has been incorporated with $5,000 capital stock, by A. V. Whiteside, S. B. Smith, W. D. Carswell, V. B. Whiteside and J. T. Dobbs, to sprinkle the streets.

KANSAS CITY, MO.—It is reported that L. P. ELBERG, of Kansas City, has secured contract for collecting and disposing of the city garbage for one year, at $30,504.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

HAMPTON FALLS, N. H.—Bids are asked until Oct. 8 by A. W. Dean, State Engr., Concord, for surfacing with gravel a portion of the Lafayette road.

FALMOUTH, MASS.—C. H. Thomas bid lowest, at $4,486, for constructing state roads at Falmouth; and Richmond F. Hudson bid lowest, at $5,927, for constructing state roads at Burlington.

WOONSOCKET, R. I.—BILTZ & CO., Warner Bldg., Bridgeport, Conn., have been awarded contract for laying 4,000 sq. yds. of brick paving for the city of Woonsocket. Frank H. Mills is City Engr.

NEW HAVEN, CONN.—The Permanent Paving Commission of New Haven is reported to have awarded the contract on Sept. 18, for paving Shelton Ave. with crushed stone to C. W. BLAKESLEE & SONS, at 70 cts. per sq. yd. and 50 cts. per sq. yd. for Belgian block gutters. The city will furnish the blocks and these will cost $1.05 a sq. yd. The improvement includes the portion that will be laid at the expense of the Consolidated Ry. Co., and will cost about $15,000. J. K. Punderford is Gen. Mgr.

WOODBRIDGE (New Haven Post-office), CONN.—Contract for the construction of 2,375 lin. ft. of macadam road in Woodbridge has been awarded to C. W. TRYON, of Meriden, at $4,133.

GREENWICH, CONN.—We are officially advised the contract for paving Greenwich Ave. from Lewis to Arch Sts., has been let to J. O. MERRITT, Port Chester, N. Y. Mr. Merritt's prices were: Mack block, $14,534; Reese Hammond Co. brick, $14,084; Clayton Fireclay Co. brick, $13,274.

JOSEPH CHRISTIANO, of Greenwich, is reported to have secured the contract for grading and rock blasting about a mile of road in Greenwich for $28,863.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Oct. 8, by John F. Ahearn, Pres. Boro. of Manhattan, for regulating, grading, paving and flagging certain streets in Manhattan.

Bids are asked until 11 a. m., Oct. 17, by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating, grading and constructing sidewalks on certain streets in Brooklyn.

WELLSVILLE, N. Y.—Bids are asked until 8 p. m., Oct. 17, by the Board of Trustees of Wellsville, for grading, paving and curbing West State St. from the river to Brooklyn Av., Brooklyn Ave. from West State to West Pearl Sts., and West Pearl St. from Brooklyn Ave. to the river. F. M. Leonard is Clk.; R. H. Lee is Engr.-in-Charge. (Advertised, Engineering News.)

ALBANY, N. Y.—Henry A. Van Alstyne, State Engr., Albany, N. Y., on Sept. 27, received the following bids for the improvement of the Kingston-High Falls State Road, No. 229, Ulster County; length, seven miles: Simpson Bros., Phoenecia, N. Y., $68,848; John P. Cox, Ellenville, N. Y., $71,000; P. F. Herlihy, Glens Falls, N. Y., $69,993; McNamee & Rice, Rondout, N. Y., $58,000; C. Hallihan, Kingston, N. Y., $57,000; DeCraff & Hogeboom, Bloomington, N. Y., $69,900; Scofield Co., Philadelphia, Pa., $72,000. Contract was awarded to C. HALLIHAN, of Kingston, N. Y., at $57,000.

SYRACUSE, N. Y.—The CENTRAL CITY PAVING CO., 213 Kirk Block, Syracuse, on Sept. 24 was awarded the contract for paving North Geddes St. from West Genesee St. to the Erie Canal, by the Board of Estimate and Apportionment. Syracuse brick will be used and the price is $17,821. F. J. Schnauber is City Engr.

BUFFALO, N. Y.—Francis G. Ward, Comr. of the Bd. of Pub. Wks., has received four sets of bids for street paving. The German Rock Asphalt & Cement Co. bid lowest in each case for asphalt, their nearest competitor being the Barber Asphalt Paving Co. F. V. E. Bardol and the Gantz-Wilson Construction Co. bid for brick paving. The German Rock Co.'s bids for asphalt were as follows: For paving Parview Ave., between Sycamore St. and Walden Ave., $10,768; for paving Tousey St. between Champlin St. and Broadway, with concrete base, $3,840; for repaving Mariner St. between Virginia and Allen Sts., with concrete base, $5,306; for paving Sobieski St. between Sycamore St. and Walden Ave., $11,700.

HIGHLANDS, N. J.—Bids are asked until noon, Nov. 1, by Lieut. William Paterson, Q. M., for constructing gravel and macadam roads at Fort Hancock. (Advertised, Engineering News.)

HAWTHORNE, N. J.—Bids are asked until Oct. 8 by the Borough Council for grading and macadamizing a portion of Passaic Ave.; also cobble guttering a portion of Mohawk Ave.

JERSEY CITY, N. J.—Bids are asked until 2 p. m., Oct. 8, by the Board of Street and Water Commissioners for repaving Newark Ave. George T. Bouton is Clk.

FLEMINGTON, N. J.—THE DELAWARE RIVER QUARRY & CONSTRUCTION CO. of Lambertville, has been awarded contract to construct the macadamized road between Flemington and Ringoes at a special meeting of the Board of Chosen Freeholders. The bid was $39,826.

UNIONTOWN, PA.—The City Council has let contract to the UNIONTOWN CONSTRUCTION CO., of this city, for 15,000 sq.

yds. of brick paving; also to W. C. McCORMICK, Uniontown, for 8,000 sq. yds. of brick paving. C. F. Kefover is Clk.; Hogg & Porter are Engrs.

CHAMBERSBURG, PA.—The following bids are reported to have been opened for constructing about 19,008 ft. of State road from Guilford Township line to the bridge near Scotland: NELSON CONSTRUCTION CO., $35,903 (awarded contract); R. A. Malone, $38,997; Frazer Construction Co., $38,-4[illegible]; McCormick Co., $48,927; Boolt & Flinn, $39,388; Berghause & Moffit, $45,385; W. H. Herr & Sons, $35,865.

BALTIMORE, MD.—The municipal Board of Awards has awarded contracts to the MARYLAND PAVEMENT CO., 6 East Lexinton St., for paving portions of Lombard St. and Millington Ave. with asphalt blocks at its bid of $16,240. This work will be done under supervision of Commissioners for Opening Streets, J. Arthur Wickham, Pres., Hoen Bldg., Holiday and Lexington Sts.

WASHINGTON, D. C.—Bids are asked until noon, Oct. 19, by the Commissioners of the District of Columbia, for laying cement sidewalks in the District. (Advertised, Engineering News.)

NEW BETHLEHEM, PA.—The Council has let contract to FRANK McCLURE, Reynoldsville, Pa., for 3,000 sq. yds. of paving, curbing and grading. D. M. Geist is Clk.

PHOEBUS, VA.—It is reported that this city will pave its principal streets at a cost of $40,000. L. P. Furness is Mayor.

WAYCROSS, GA.—We are officially advised that the GEORGIA ENGINEERING CO., Augusta, on Sept. 22, secured contract for street paving in this city. C. J. Thomas is City Engr.; J. W. Strickland is City Clk.

MACON, GA.—The Atlantic Compress Co., 1611 Chandler Bldg., Atlanta, Ga., has about 125,000 yds of grading to be done here. J. R. Fordyce is Ch. Engr. (Advertised, Engineering News.)

UNIONTOWN, ALA.—We are officially advised that on Sept. 10, E. L. NONEMACHER, Uniontown, secured contract, at $17,395, for paving various streets in this city.

MERIDIAN, MISS.—It is reported that the COLUMBUS CONCRETE CO., of Columbus, Miss., has contract for laying concrete sidewalks in the business district; total cost approximating $11,000.

NEW ORLEANS, LA.—Bids are asked by Charles R. Kennedy, City Comptroller, until 1 p. m., Oct. 8, for the following work: For paving with asphalt Joseph St., from St. Charles Ave to South Rampart St.; for repaving with asphalt Union St., from Carondelet to Baronne Sts.; sub-surface drains, culverts, curbs and gutter bottoms and sidewalk pavements on Soniat St., from St. Charles Ave. to Dryades St.; paving with asphalt Soniat St., from St. Charles Ave. to Dryades St.; sub-surface drains, culverts, curbs and gutter bottoms and sidewalk pavements on Soniat St., from Dryades to South Rampart Sts.; for paving with asphalt Soniat St., from Dryades to South Rampart Sts.; sub-surface drains, culverts, curbs and gutter bottoms and sidewalk pavements on Joseph St., from St. Charles Ave. to South Rampart St. W. J. Hardee is City Engr.

LOUISVILLE, KY.—The Board of Public Works of New Albany, Ky., has awarded the contract to MICHEL & CONDRA for extensive improvements to the streets here.

TOLEDO, OHIO.—Lincoln Ave. and Sherman St. will be improved by having the central 26 ft. paved with sheet asphalt, bitulithic pavement or other material; Central Ave. also will be paved. Oren Dunham is City Clk. Frank I. Consaul is Ch. Engr.

MASSILLON, OHIO.—Approximately $30,-000 worth of sidewalks have been ordered for this season and next spring.

YOUNGSTOWN, OHIO.—It is reported that the McGuffey St. viaduct will be repaved with concrete or asphalt. Estimated cost, $16,000. John C. Hanni is Pres. Bd. of County Comrs.

CANTON, OHIO.—Bids are asked by the Board of Public Service until noon, Oct. 5, for 8,300 sq. yds. brick paving, 3,000 lin. ft. straight curb, 2,000 lin. ft. pipe and storm water sewers, ten catch basins; also for 3,600 lin. ft. 8-ft. sanitary sewers and eight manholes. B. F. Faust is Clk.; Phil H. Weber, C. E., is Engr.-in-Charge.

ATHENS, OHIO.—The City Council has awarded contracts for paving as follows: C. KENNEDY, of Parkersburg, Cemetery, State, Lancaster and West State Sts., at $9,914, and DAN MILLS, of Athens, Franklin Ave., Mulberry, South Cemetery, Lash and North Congress Sts., at $11,369.

CLEVELAND, OHIO.—Bids will be received until Oct. 13 by Wm. G. Phare, Village Clk. of Cleveland Heights, at 206 American Trust Bldg., Cleveland, for furnishing material and improving a portion of Euclid Heights Boulevard by constructing sidewalks. Evers Engineering Co. are Engrs., 237 The Arcade, Cleveland.

ST. BERNARD (Cincinnati post-office), OHIO.—The contract for macadamizing a portion of Sullivan Ave., in St. Bernard, has been awarded to G. P. WALKER, Third St. and Broadway, Cincinnati, for $7,103. J. A. Stewart is Village Engr., 712 Traction Bldg., Cincinnati.

ELYRIA, OHIO.—We are officially advised that on Sept. 21 the Commissioners of Lorain County awarded contract for macadamizing Center road to L. T. DAVIS. O. E. Haseroldt is Audr.

CINCINNATI, OHIO.—The two lowest bids received Sept. 25, by M. J. Keefe, Clk. Bd. Pub. Service, for grading and paving Clifton Ave., were Henkel & Sullivan, Mercantile Library Bldg., Cincinnati, $77,089, and Kerchner Construction Co., Eighth and Plum Sts., Cincinnati, $79,064.

READERS' WANTS FOR THOSE IN THE MARKET The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (E-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, **mention Engineering News.** Have you a copy of our Buyers' Guide? **Engineering News Can Help Buyers.**

SEWER CATALOGUES.—Cincinnati, Ohio.—H. C. Innes, C. E., Station R, Cincinnati, Ohio, desires catalogues and price lists from sewer manufacturers.

SEWER PIPE CLEANING MACHINE.—Haywards, Cal.—H. Gould, Haywards, Cal., informs us that he is in the market for machinery to clean sewer pipes.

STEAM HAMMERS.—Oakland, Cal.—Cotton Bros. & Co., 241 Bacon Block, Oakland, Cal., writes us that it is in the market for steam hammers for pile driving.

SALT MAKING MACHINERY.—New York, N. Y.—W. J. Kingsland, Dept. C, 21-24 State St., New York, desires prices and catalogues from firms manufacturing salt-making machinery.

SAND PUMPING AND WASHING PLANT.—Burton, Va.—The Gibboney Sand Co., of Burton, Va., is in the market for a sand pumping and washing plant with a capacity of at least 100 cu. yds. per 10 hours against a head of 40 ft. Material, river sand. Catalogues, prices and general information requested.

ALCOHOL MOTORS.—Toronto, Ont.—We are in receipt of a letter from R. B. Wolsey, 25 Lowther Ave., Toronto, Ont., in which he states he desires names of firms manufacturing alcohol motors for farm use.

FOUNDRY EQUIPMENT.—Orrville, Ohio.—The Cyclone Drill Co., Orrville, Ohio, is in the market for foundry equipment, cupola, cupola fan, tumbling barrels, emery stand and 1,000-lb. platform scale. All to be second-hand if in good condition.

ROOFING MATERIAL.—Waltham, Mass.—We are in receipt of a letter from George W. Cutting, Jr., Lawrence Bldg., Waltham, Mass., in which he states he desires catalogues and prices of roofing material for a flat roof to be used as a clothes yard.

SOUTH BEND, IND.—Bids are asked until Oct. 10, by the Board of Public Works for paving several streets in this city.

Contracts for brick paving have been awarded as follows: Taylor St., to C. H. DEFREES, with Barr block, 2,035 sq. yds., $2,631, and for South Bend Ave. to JAMES NELSON, for Hocking Valley block, 2,865 sq. yds., $4,097.

RENNSELAER, IND.—The Board of Commissioners of Jasper County let contract to W. F. SMITH & CO., Rennselaer, for macadam street paving, at $80,000.

CROWN POINT, IND.—The Board of Commissioners of Lake County has let contract to MOON & HALE, East Chicago, Ind., for constructing Center Township gravel roads, and to D. A. FATOUT, Indianapolis, for Hanover Township gravel roads. Samuel A. Love is Chn.; Charles A. Johnson is County Audr.

SPENCER, IND.—Bids are asked by the Commissioners of Owen County, until noon, Oct. 6, for construction of one mile of gravel road in Marion Township. G. O. Millen is County Audr.

KALAMAZOO, MICH.—The City Council has decided to extend the North St. paving from West St. to Douglass Ave., Metropolitan brick with pioneer filler being used. The work will be done in the spring and will cost $22,580.

BYRON, MICH.—Bids are asked by the Township Board until Oct. 31, for construction of a one-mile roadway. Michael J. O'Meara is Township Clk.

SPRINGFIELD, ILL.—The Park Board has awarded to the BARBER ASPHALT PAVING CO. the contract for removing the Novaculite pavement on South Grand Ave., from Sixth to Walnut Sts., about 22,000 sq. yds., at 10 cts. per sq. yd., and paving same with asphalt, at $1.87½ per sq. yd.

CHICAGO, ILL.—Bids are asked until 10.15 a. m., Oct. 8, by the Board of Local Improvements, for paving various alleys in this city. George A. Schilling is Pres.; John A. May is Secy.

BELOIT, WIS.—A. E. RUTLEDGE, Rockford, Ill., has secured the contract for street paving and grading. Cost, $20,000.

DES MOINES, IOWA.—Bids are asked until Oct. 12, by the Board of Public Works, for paving with broken stone macadam, about 5,567 sq. yds. on West 30th St. W. W. Wise is Chn.

We are officially advised that the BARBER ASPHALT PAVING CO., 114 Liberty St., New York, N. Y., has secured contract for paving West Eleventh St. with asphalt. George D. Dobson is City Engr.

KANSAS CITY, MO.—Bids are asked by J. L. Phelps, County Clk., until 11 a. m., Oct. 10, for the following work: Macadamizing Holmes Park Road from Kansas City and Harrisonville Road east, to northeast corner of the west half of the southeast quarter of Section 25, Township 48, Range 33; regrading Swope Parkway from southern limits of Kansas City, south, to 65th St.; macadamizing roadway, 30 ft. wide on Swope Park, north, to the southern limits of Kansas City.

SEATTLE, WASH.—HANS PEDERSON, 410 Washington Block, Seattle, Wash., has secured contract for constructing concrete sidewalks, for which bids were received Sept. 22, at $20,881. Other bidders were: Peter Dineen, Seattle, $21,677; Spargar Concrete Co., Coleman Block, Seattle, $21,889. R. H. Thomson is City Engr.

LOS ANGELES, CAL.—CHARLES MUSHRUSH has been awarded the contract for grading, curbing, guttering and constructing sidewalks on Raymond Ave., from Washington St. to the north city limits. His bid was $14,671.

MODESTO, CAL.—Bids are asked until Oct. 10, by W. J. Martin, Clk. Supvs., of Stanislaus County, for grading Grayson Road.

SAN FRANCISCO, CAL.—Lower Market St. is to be raised to the official grade, and the CITY STREET IMPROVEMENT CO. has contract for the work, at $78,789. This company has also contract to reconstruct sewers and repave on Market St., between Valencia and Twelfth Sts., at $26,809. Thomas P. Woodward is City Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

BANGOR, ME.—The Crown Silk Co., composed mainly of Easton, Pa., capitalists, has decided on another structure, soon to be erected. It will be 100 × 42 ft., two stories in height, the contract for which will be awarded in a few days. Large quantities of machinery for the plant have already been ordered.

NEW BEDFORD, MASS.—The B. F. SMITH CO., of Pawtucket, has been awarded the contract for the construction of Manomet Mill No. 2. The new building will be 750 × 150 ft., and three stories high.

NEW YORK, N. Y.—The following bids were received by the Commissioner of Water Supply, Gas and Electricity Sept. 26, for constructing and erecting a machine work shop and office on the east side of Logan St., about 80 ft. north of Atlantic Ave., Boro. of Brooklyn: C. H. Peckworth, 415 Hudson St., $37,844; Geo. F. Driscoll, 391 Fulton St., Brooklyn, $37,861, and James MacArthur, 22 Ormond Pl., Brooklyn, $38,272.

HUDSON CITY, N. J.—Plans are being made for and work will soon begin on the 4-story factory building which Hugo Grossenbach proposes erecting at Sherman Ave. and Griffith St. It is understood that the new plant will be used as a silk manufacturing establishment.

TRENTON, N. J.—W. P. Endebrock, Arch., 135 East State St., is preparing plans for a 3-story addition, 60 × 50 ft., to be of brick, for the Ajax Grieb Rubber Co.

ALLENTOWN, PA.—Hersch & Bro. will soon have plans started for a 3-story brick factory, 50 × 135 ft.

BRADYS BEND, PA.—Plans have been prepared by Victor Buetner, Engr., Westinghouse Bldg., Pittsburg, Pa., for a plant for G. W. Dewey, to cost $400,000.

BRISTOL, PA.—The Standard Cast-Iron Pipe Foundry, with $2,000,000 capital, and the American Pipe Co., have purchased 132 acres of the Landreth Seed Farm and will build their immense plant here, which will employ 700 hands. Hundreds of houses for the workmen will be built on the property.

LANCASTER, PA.—Bids are asked by the H. J. Miller Brick Machine Co. for the erection of a 1-story brick foundry, 75 × 240 ft.

NEW CASTLE, PA.—The Standard Steel Car Forge Co has appropriated $500,000 for an enlargement of its plant. Plans will be prepared at once.

NORTHAMPTON, PA.—The LEHIGH ENGINEERING CO., Allentown, Pa., has received the contract for the 4-story brick and steel addition, 60 × 80 ft., to a brewery for the Northampton Brewing Co.

PHILADELPHIA, PA.—A permit has been granted the L. Martin Co. for a $12,000 1-story factory, 43 × 145 ft., at Milnor and Bleigh Sts.

C. W. DENNY, 1330 Arch St., has received the contract for a 4-story brick addition to factory at 187 Berks St., for Nahm Bros.

The Eynon-Evans Mfg. Co., 1525 Clearfield St., have plans ready for estimates for 3-story addition to their factory. Power equipment and special machinery will be required.

READING, PA.—L. H. FOCHT, Baer Bldg., has received the contract and started work on a 1 and 2-story addition to the plant of the Prospect Dye Works.

BALTIMORE, MD.—F. DECKER & SONS have received the contract for the 4-story brick and steel addition to the Darley Park Brewing Co.'s plant. Estimated cost, $40,000.

LYNCHBURG, VA.—James H. Wynkoop, of New York, N. Y., has made a proposition to furnish $150,000 for a plant to manufacture structural steel, provided the citizens will furnish an additional $150,000. If this plan is agreed upon the plant will be established.

NEWBERN, N. C.—Craven Chemical Co. has been incorporated with $100,000 capital stock to establish fertilizer factory and cottonseed oil mill. About $25,000 will be invested in buildings and equipment. C. E. Fox is Mgr.

NEW ORLEANS, LA.—The Dixie Brewing Co. will erect a brick building at a cost of $85,000.

LOUISVILLE, KY.—It is reported that B. F. Avery & Son Co. will remove to a new location next year and build a new plant to cost several million dollars. [illegible] C. Avery is Pres.

COLUMBUS, OHIO.—It is [illegible] that the Bennington Typewriter Co [illegible] will erect a $30,000 manufacturing plant [illegible]

FT. WAYNE, IND.—Plans [illegible] the new shop buildings of the Ft. Wa[illegible] & Wabash Valley Traction Co., to be e[illegible] in connection with the new power [illegible], have been completed by the chief e[illegible]. The principal building will be a [illegible] and machine shop. M. J. Kehoe is [illegible] Engr.

LAPORTE, IND.—A large ad[illegible] will be erected to the plant of the Hot[illegible] M. Cable Co. Estimated cost, $15,000.

CALUMET, MICH.—The Ypsi[illegible] Paper Co., whose mill at Ypsilanti was [illegible]tly destroyed by fire, has been allow[illegible] the full amount of its insurance, $70,0[illegible] and has decided to rebuild the paper mil[illegible] is not likely that it will rebuild the pu[illegible] mill.

DETROIT, MICH.—The Miller [illegible] Co., Rochester, Mich., will erect a [illegible]tory factory building, 30 × 100 ft., for [illegible] manufacture of acetyline gas machin[illegible] Estimated cost, $12,000.

MOLINE, ILL.—The Root & Van [illegible]ervoort Engineering Co. has increased its [illegible]ital to $125,000, and will erect a new machine shop in a short time, to be 90 × 400 ft., a testing building to be 40 × 140 ft., and [illegible] office building to be 41 x 70 ft.

ROCK FALLS, ILL.—Plans are being prepared by C. E. Weatherbee, Arch., [illegible] East Third St., Sterling, Ill., for a 4-story factory, 80 × 80 ft., for the Eureka M[illegible] Co.

MILWAUKEE, WIS.—The Tabor Glove Co. will erect an addition to their plant on Reed St., between Mitchell and Lapham Sts. Estimated cost, $15,000.

DAVENPORT, IOWA.—The Korn Baking Co., Harrison St., will erect a new building at Sixth and Main Sts. D. J. Harfst, Schmidt Bldg., is Archt. Estimated cost, $10,000.

GUTHRIE, OKLA.—The Capital City Canning Co., recently organized, will erect a canning factory here. Estimated cost, $15,-000. Joseph W. McNeal is Pres.

SEATTLE, WASH.—The Saxony Knit Goods Co., recently incorporated here with a capital of $70,000, will establish a factory here soon. This factory was recently located at San Francisco, but was destroyed by fire.

WALLA WALLA, WASH.—James G. Kidwell, Pres. of the Walla Walla Meat & Cold Storage Co., is reported as saying that they would immediately begin the construction of a 3-story brick building at the foot of Sixth St. for use as a packing house. The estimate placed upon the new building and equipment is $50,000.

PORTLAND, ORE.—The Hazelwood Creamery Co. has bought a quarter block at Hoyt and 13th Sts. from Florence Lyman, for $21,600. The company proposes to erect a 4-story frame building and install a creamery plant.

DOLGEVILLE, CAL.—It is reported that the Electric Heating & Mfg. Co., of Los Angeles, will erect extensive factory buildings, where will be manufactured electric flat irons, electric toasters, etc.

BOISE, IDAHO.—The Bagdad-Chase Mining Co., who has purchased the Petit mine at Atlanta, will erect a mill on the property having a capacity of 50 tons a day. An expenditure of $50,000 will be made in installation of the plant and in development work.

PRESCOTT, ONT.—As an outcome of Hon. L. P. Brodeur's (Minister of Marine) visit to this city recently, the Government will remove the shipyards and machine shops from Sorel and establish them at Prescott, where the marine department already maintains an important establishment in connection with lighthouse and buoy service.

HASTINGS, ONT.—The Peterboro Boiler & Radiator Co. will establish a plant here, and a bonus of $5,000 and exemption from taxation for ten years was voted by the town on Sept. 24.

LEAMINGTON, ONT.—The by-law for a loan of $30,000 for an automobile factory was defeated at election on Sept. 24 by a large majority.

VANCOUVER, B. C.—An export sawmill of a capacity of approximately 150,000 ft. a day is to be erected on the Queen Charlotte Islands by D. Drysdale, formerly president of the Alaska Packers' Association, and associates.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

SUBWAY.—Auburn, N. Y.—J. R. BAXTER, Utica, N. Y., has been awarded contract for Genesee St. subway, at $19,700. Noted last week.

BREAKWATER.—Goderich, Ont.—Bids are asked until Oct. 20 by Fred. Gelinas, Secy. Dept. Public Works, Ottawa, Ont., for completion of breakwater at Goderich.

SUBWAY SUBSTRUCTURE.—Toronto, Ont.—Bids are asked until noon, Nov. 6, by E. Coatsworth, Chn. Bd. Control, for Lansdowne Ave. subway substructure. (Advertised, Engineering News.)

SEAWALLS.—Boston, Mass.—Bids are asked until noon, Oct. 11, by Board of Harbor and Land Commissioners for building stone and concrete seawalls at Scituate, Mass. (Advertised, Engineering News.)

ATHLETIC FIELD.—New York, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., New York City, until Oct. 8, for the general construction, etc., of an athletic field on Crotona Park North, opposite Prospect and Clinton Aves., Boro. Bronx.

PIER.—Norfolk, Va.—Bids are asked until noon, Oct. 22, by Lieut. E. J. Dent, Engr., U. S. Engineer Office, 22d and K Sts., N. W., Washington, D. C., for constructing Government pier, Jamestown Exposition, Hampton Roads, Va. (Advertised, Engineering News.)

BULKHEAD.—San Francisco, Cal.—The lowest bid opened on Sept. 13 by the Harbor Commission for constructing a wharf bulkhead, 720 x 60 ft., between the China and Central basins, is reported to have been submitted by the Thomson Bridge Co., for $24,930.

NAVY-YARD CONDITIONS. — Pensacola, Fla.—Great damage is reported to have been sustained by the navy-yard here during the storm which swept the Gulf of Mexico last week. Details will be given when authentic report is made by the Bureau of Construction and Repair.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., until Oct. 16, 10 a. m., for furnishing naval supplies at various navy yards. And also until 10 a. m., Oct. 23 and Oct. 30, for quantity of naval supplies. H. T. B. Harris, Paymaster-Gen., U. S. N.

ROCK REMOVAL.—New London, Conn.—Bids were received as follows on Sept. 27 for rock removal at New London Harbor. Major Harry Taylor, Corps Engineers. The Thames Towboat Co., $8,281; Atlantic Dredging Co., $9,428; R. G. Packard Co., $12,440; John J. Fitzpatrick, $7,478; The T. A. Scott Co., Inc., $7,644.

GRADING.—Macon, Ga.—The Atlantic Compress Co., J. R. Fordyce, Ch. Engr., 1611 Candler Bldg., Atlanta, Ga., has about 125,000 yds. of grading to be done at Macon, Ga. Maps, profiles and grading plans can be secured from Solomon-Norcross Co., Consult. Engrs., 1622 Candler Bldg., Atlanta. (Advertised. Engineering News.)

SHELLS, ETC.—Washington, D. C.—Bids are asked until Oct. 12, by the Bureau of Ordnance, War Dept., Washington, for 1,000 6-pounder common steel shells, 1,000 3-in. A. P. Shells, 200 4-in. A. P. shells, 2,500 6-in. A. P. shells and 200 6-in. A. P. shot. At the same bureau, until Oct. 19, for ten 3-in. rapid-fire seacoast guns (15-pounders).

DREDGING, ROCK REMOVAL.—New York, N. Y.—The only bid received and opened on Sept. 24 by Col. D. W. Lockwood, Corps Engrs., U. S. A., for dredging and rock removal in Middle Reef, at Hell Gate, was submitted by R. G. Packard Co., 130 Pearl St., for the lump sum of $127,750. The bid was considered informal, time of completion being changed from 6 to 18 months.

DREDGING.—Boston, Mass.—Two bids were received on Sept. 29, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for dredging material from slips, Navy Yard, Boston. Mordecai T. Endicott, Ch. Bureau. They were as follows: The J. S. Packard Dredging Co., Provdence, R. I., 49 cts. a cu. yd., measured in scows; Eastern Dredging Co., Boston, Mass., 46 cts.

CONCRETE WALL.—Skaneateles, N. Y.—One bid was received by N. V. V. Franchot, Supt. Public Works, Albany, on Sept. 28th, for the work of constructing a concrete protection wall on west side of Skaneateles Lake outlet, in village of Skaneateles, Onondaga County, N. Y. It was submitted by the Syracuse Railroad Construction Co., Onondaga County Savings Bank Bldg., Syracuse, N. Y., for $9,912.

GAS, OIL WELLS.—Hamlin, W. Va.—The Columbia Corporation has been chartered with $11,000,000 authorized capital stock for the purpose of mining and manufacturing gas and oil in the counties of Lincoln and Roane, where a large tract of land has been contracted for. It is proposed to pipe natural gas to Cleveland and Cincinnati, Ohio. E. B. Enslow, R. M. Baker, C. L. Porter, S. H. Moore and R. S. Douthat are the incorporators.

CEMENT.—Portland, Ore.—The Secretary of the Interior has awarded contract to the PACIFIC PORTLAND CEMENT CO., Tolenas, Cal., for supplying 27,000 barrels, more or less, of Portland cement for the Tieton and Sunnyside irrigation projects, Washington. Four proposals were received for furnishing this cement, but, taking into consideration the cost of transportation, that of the Pacific Portland Cement Co. was the lowest.

FIRE ALARM SYSTEM.—Peterboro, Ont.—Bids are asked until 4 p. m., Oct. 18, by F. Adams, Chn. Fire, Water & Light Com., for a fire alarm system for this city. (1) For supplying all the material required, and erecting, equipping and putting it in operation; (2) For supplying all the material required and delivering it at Peterboro; (3) For maintenance and repairs of the system after it is erected for periods of five or ten years. S. R. Armstrong, City Clerk.

JETTY AND DIKE.—Wilmington, Del.—The following are the bids opened on Sept. 24 by C. A. F. Flagler, Corps Engrs., for (a) jetty construction, and (b) dike construction at mouth of Mantua Creek (price given per lin. ft.): Franklin K. Wills Co., Wilmington, (a) $18.40, (b) $5.25; Latta & Terry Constr. Co., Philadelphia, Pa., (a) $22.50, (b) $6.25; Richard Parrett, Newburgh, N. Y., (a) $17.75, (b) $5; Tatnall-Brown Co., Wilmington, (a) $20.65, (b) $9.65.

DREDGING.—Mobile, Ala.—Major W. E. Craighill, Corps Engrs., advises us that contract for dredging in Mobile Harbor has been awarded to GEORGE G. BARKER, of Wilmington, Del. Bids were received on Sept. 22. Estimated cost, $90,000. The bidders were: Maryland Dredging Contracting Co., Baltimore, Md., 8¾ cts. a cu. yd.; Home Dredging Co., Mobile, 14½ cts.; George G. Barker, Wilmington, Del., 8 cts. (awarded contract); Atlantic, Gulf & Pacific Co., New York, N. Y., 13 cts.

WHARF, LAZARETTO, ETC.—Ottawa, Ont.—Bids will be received by the Public Works Department for several utilities provided for in the estimates of last session. A wharf is to be built at Seven Islands, Que., and another at Escumains, on the north shore of the St. Lawrence. The leper Lazaretto at Tracadie, N. B., is to have a new laundry building. Bids are also asked for equipping the barracks at Kingston, Ont., with heating apparatus, and bids are also asked for the construction of a revetment wall in the harbor of Owen Sound, Ont.

REMOVING EARTH, BOULDERS, ETC.—Detroit, Mich.—The following are the bids opened on Sept. 11 by Col. E. L. B. Davis, Corps Engrs., U. S. A., for removing earth and boulders from Sect. 3, Channel along Bois Blanc Island Range, Detroit River: (a) price per cu. yd.; (b) totals: Dunbar & Sullivan Dredging Co., Buffalo, N. Y., (a) [illegible] cts.; (b) $53,861. Great Lakes Construction Co., Buffalo, N. Y., (a) 22½ cts.; (b) $90,975. Detroit Dredging Co., Detroit, (a) 23 cts.; (b) $92,330. Great Lakes Dredge & Dock Co., Chicago, Ill., (a) 37 cts.; (b) $100,270. G. H. Breymann & Bro., Toledo, (a) 57 cts.; (b) $154,470. Buffalo Dredging Co., Buffalo, N. Y., (a) 60 cts.; (b) $162,600.

AIR COMPRESSORS, ETC.—Norfolk, Va.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has made award of contract to the INGERSOLL-RAND CO., 11 Broadway, New York, for furnishing two air compressors to the Navy Yard, Norfolk, Va., at $36,234, under that part of its bid known as alternate G. Bids for this work were opened Aug. 4. The contract for the electrical work was awarded to the WESTINGHOUSE ELECTRIC & MFG. CO., Baltimore, Md. The bids on the remainder of the work, including boilers, condensers and feed-water heaters, have been rejected. New specifications for these articles have been prepared and bids will be opened at 11 a. m., Oct. 13.

PUMPING SYSTEM.—Williston, N. Dak.—The Secretary of the Interior has executed a contract with the GENERAL ELECTRIC CO., of Schenectady, N. Y., for furnishing material and machinery for the electric generating plant of the power and pumping system, Williston Irrigation Project, N. Dak. This work will cost the Government $41,242. The operation of the pumping machinery in N. Dak. will be watched with great interest by the people in many sections of the west where the Reclamation Service has located large areas above the line of gravity supply. The power for the Williston and Buford-Trenton projects will be generated at the lignite mines in the vicinity of Williston, and transmitted electrically to the several pumping stations of the two projects.

LIGHT VESSELS.—Washington, D. C.—Bids were opened Sept. 29, at the office of the Light House Board, Dept. of Commerce and Labor, Washington, D. C., for the construction of five light vessels, to be delivered at Tompkinsville, N. Y. The following bids were received: Fore River Shipbuilding Co., Quincy, Mass., all five, $575,000; Wm. Cramp & Sons, Philadelphia, vessel No. 84, $114,950; 84 and 85, $229,900; 84, 85 and 86, $344,850; 84, 85, 86 and 87, $459,800; 84, 85, 86, 87 and 88, $574,750; New York Shipbuilding Co., Camden, N. J., 84, $112,000; 84 and 85, $220,000; 84, 85 and 86, $320,000; 84, 85, 86 and 87, $396,000; 84, 85, 86, 87 and 88, $495,000. A telegram was received from the Moran Bros., Seattle, Wash., stating that they had mailed on Sept. 26 a bid on vessel No. 88, alone, to be delivered at Astoria, Ore.

DAM WORK.—Portland, Ore.—The board of consulting engineers of the U. S. Reclamation Service, which convened recently at Portland, Ore., to open bids for the building of the Cold Springs dam, in connection with the Umatilla Irrigation Project, Ore., reports that three bids were received as follows: Alternate A, or dam with rip-rap facing, Clement, Strange & Salisbury, of Salt Lake City, Utah, $339,505; Alternate B, rock fill facing, $345,380. The bid of R. Wakefield, Portland, Ore., for Alternate A was $489,059, and for Alternate B, $496,789. The Puget Sound Bridge & Dredging Co., of Seattle, Wash., bid $471,894 for Alternate A, and $486,744 for Alternate B. The dam will be constructed near Hermiston, Ore., and involves 694,000 cu. yds. of earth and gravel excavation, about 3,100 cu. yds. of rock excavation, about 3,110 cu. yds. of concrete, and about 35,000 cu. yds. of riprap and rock fill.

PUMPING MACHINERY.—Norfolk, Va.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., will shortly invite proposals for the pumping machinery and accessories for the new dry dock at the Navy Yard, Norfolk, Va., including two volute centrifugal pumps of not less than 54-in. size, direct-connected with 550-HP. alternating-current motors. The pumps will be designed to operate at a constant speed of not more than 200 revolutions per minute, and each pump shall have an average capacity of not less than 68,000 gallons per minute, starting against a static head of zero feet and ending against a static head of 33 ft. There will also be two 12-in. centrifugal drainage pumps of the single-suction, vertical-shaft type connected to drainage pump motors having a normal rated output of 60 HP. at a speed not greater than 550 revolutions per minute. There shall also be provided and installed one bank of three 50-KW. transformers, and one 5-KW. transformer for operating a motor-driven ventilating fan and for supplying lights in the pump well. Also one four-panel switchboard and all necessary wiring, piping, valves, etc. Contract will allow six months for completion of the work. Advertisement inviting proposals should appear in about three weeks.

STEEL.—Washington, D. C.—Bids were opened September 25, at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for a large quantity of steel and steel rivets for the construction of the U. S. S. Vestal and Prometheus. The following were the bidders: (a) Carnegie Steel Co., (b) Cambria Steel Co., (c) R. C. Hoffman & Co., Baltimore; (d) Worth Bros. Co., New York; (e) American Steel Foundries Co., Chester, Pa.; (f) Bethlehem Steel Co., South Bethlehem, Pa.; (g) Penn Steel Casting & Machine Co., New York; (h) C. M. Hallman, Lebanon, Pa. Schedule 121, Class 11, 3,000 tons ship's plates, rectangular and straight taper, delivered at New York, for the Vestal: (a) $127,350; (b) $130,368; (c) $123,648; (d) $120,624. Class 12, same for Mare Island, Prometheus: (a) $173,040; (b) $178,080; (c) $170,016. Class 13, 300 tons sketch plates, for Mare Island: (a) $11,942; (b) $12,820; (c) $11,782. Class 14, same for New York, (a) $8,938; (b) $9,139; (c) $8,691; (d) $8,489. Class 21, 171 tons straight channels, for Mare Island: (a) $9,671; (b) $10,071. Class 23, 567 tons angles, for New York: (a) $24,641; (b) $24,671. Class 24, same for Mare Island: (a) $31,644; (b) $32,514. Class 25, 100 tons steel castings, Mare Island: (e) $19,813; (f) $28,000; (g) $26,880. Class 26, same for New York, (e) $15,129; (f) $28,000; (g) $22,400. Class 29, 225 tons plain steel hull rivets, Mare Island: (h) $14,011. Class 30, same for New York: (h) $17,781.

Awards have been made as follows: Class 11, 3,000 tons ship's plates, for U. S. S. Vestal, New York Navy Yard: WORTH BROS. CO., New York, $120,624. Class 12, same for U. S. S. Prometheus, Mare Island: R. C. HOFFMAN, Baltimore, $170,016. Class 13, 300 tons sketch plates, Mare Island: R. C. HOFFMAN, $11,782. Class 14, same, New York: WORTH BROS. CO., New York, $8,489. Class 21, 171 tons straight channels, Mare Island: $9,672. Class 22, same, New York: $7,450. Class 23, 567 tons angles, New York: $24,642. Class 24, same, Mare Island: $31,644. All four classes to CARNEGIE STEEL CO., Pittsburg, Pa. Class 25, 100 tons steel castings, Mare Island: $19,813; and Class 26, same, New York, $15,129, to AMERICAN STEEL FOUNDRIES CO., Chester, Pa. Class 29, 225 tons plain steel hull rivets, Mare Island, $14,011, and Class 30, same, New York $15,129, $17,781, to C. M. HALLMAN, Lebanon, Pa.

U. S. POSSESSIONS AND CUBA.

STEEL RAILS.—Panama.—Award has been made by D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for 5,000 tons steel rails, for which bids were opened Sept. 6, under circular 327, to the U. S. STEEL PRODUCTS EXPORT CO., 21 State St., New York, at $29 per ton.

RAILWAY MATERIALS.—Panama.—Bids were opened Sept. 28 at the office of D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing a large quantity of railway materials, as follows: Item 1, 40,000 steel splice bars; item, 2, 350,000 tie plates; item 4 ,180,000 lbs. track spikes: R. C. Hoffman & Co., Baltimore, (1) $16,397, time 30-45 days, (4) $5,256, time 90-120 days; Manning, Maxwell & Moore, New York, (1) $16,680, time 30-50 days, (2) $31,091, time 30-180 days; Motley Green & Co., New York, (1) $24,300, time 30-90 days, (4) a, $6,930, time 1-10 days, b, $3,870, time 120-180 days; United States Steel Products Export Co., New York, (1) $23,866, time 90-100 days, (2) $25,367, time same, (4) $4,122, time same; Hart Steel Co., Elyria, Ohio, (2) $26,250, time 42 days.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*SEWER.—Portland, Ore.—Bids were received by D. W. Taylor, City Engr., on Aug. 17 for construction of the Brooklyn District sewer, and contract awarded to the lowest bidders, PAQUET, GIEBISCH & JOPLIN, of Portland. The itemized bids were as follows: (A) Paquet, Giebisch & Joplin; (B) R. W. Wakefield; (C) Pacific Bridge Co.:

BIDS RECEIVED FOR BUILDING BROOKLYN DISTRICT SEWER, PORTLAND, ORE.

	Price per lin. ft. (A)	(B)	(C)
1,616.25 lin. ft., 10-ft. clear inside diameter, 3-ring brick sewer with stone invert	$14.88	$19.62	$21.70
995.66 lin. ft., 9-ft. 10-in. clear inside diameter, 3-ring brick sewer with stone invert	14.66	18.30	18.60
858.29 lin. ft., 9-ft. 8-in. clear inside diameter, 3-ring brick sewer with stone invert	14.42	17.57	19.20
718.15 lin. ft., 7-ft. 6-in. clear inside diameter, 3-ring brick sewer with stone invert	11.77	14.28	15.00
408.45 lin. ft., 7-ft. clear inside diameter, 3-ring brick sewer with stone invert	11.14	13.45	15.00
997.48 lin. ft., 6-ft. clear inside diameter, 3-ring brick sewer with stone invert	9.84	11.30	11.00
460 lin. ft., 5-ft. 8-in. clear inside diameter, 3-ring brick sewer with stone invert	9.23	7.75	7.00
1,272 lin. ft., 5-ft. 6-in. clear inside diameter, 2-ring brick sewer with stone invert	6.80	7.37	7.00
969 lin. ft., 5-ft. 4-in. clear inside diameter, 2-ring brick sewer with stone invert	6.64	7.15	7.00
1,104.25 lin. ft., 5-ft. 2-in. clear inside diameter, 2-ring brick sewer with stone invert	6.47	7.05	6.00
1,831.20 lin. ft. 5-ft. clear inside diameter, 2-ring brick sewer with stone invert	6.32	6.90	6.50
780 lin. ft., 4-ft. 10-in. clear inside diameter, 2-ring brick sewer with stone invert	5.48	6.70	6.00
1,141.25 lin. ft., 4-ft. 8-in. clear inside diameter, 2-ring brick sewer with stone invert	5.30	6.55	6.00
737.27 lin. ft., 4-ft. 6-in. clear inside diameter, 2-ring brick sewer with stone invert	5.16	6.40	5.50
520 lin. ft., 3-ft. 8-in. clear inside diameter, 2-ring brick sewer with stone invert	4.64	5.50	5.00
100 lin. ft., 24-in. clear inside diameter, vitrified sewer pipe, double strength	3.50	4.00	2.30
6 lin. ft., 24-in. clear inside diameter, vitrified sewer pipe.	3.00	4.00	2.50
12 lin. ft., 20-in. clear inside diameter, vitrified sewer pipe	1.48	3.25	1.65
6 lin. ft., 18-in. clear inside diameter, vitrified sewer pipe.	1.25	2.50	1.25
4 lin. ft., 16-in. clear inside diameter, vitrified sewer pipe.	1.17	2.25	1.10
10 lin. ft., 14-in. clear inside diameter, vitrified sewer pipe	.90	2.25	1.00
18 lin. ft., 12-in. clear inside diameter, vitrified sewer pipe	.70	1.75	.65
34 lin. ft., 10-in. clear inside diameter, vitrified sewer pipe	.55	1.60	.50
1,214 lin. ft., 8-in. clear inside diam., vitrified sewer pipe.	.47	1.30	.40
936 lin. ft., 6-in. clear inside diameter, vitrified sewer pipe	.38	1.10	.25
41 concrete corners, complete, each	15.00	15.00	6.00
26 manholes, as per plan	80.00	.....	80.00
64,388 cu. yds., more or less, excavation and refilling open cut, per cu. yd	.75	.75	.70
23,757 cu. yds., more or less, excavation open cut, per cu. yd	.75	.85	.70
1,566.25 lin. ft. of tunnel, complete, for sewer 9-ft. 10-in. and 10-ft. inside diameter, including excavation, backfilling, removal of surplus material, timbering and removal of same when directed, per lin. ft.	25.00	20.00	27.50
50 lin. ft. of tunnel, complete, for sewer 7-ft. 6-in. inside diameter, including excavation, backfilling, removal of surplus material, timbering and removal of same when directed, per lin. ft.	9.00	12.00	10.00
55 lin. ft. of tunnel, complete, for sewer 6-in. inside diameter, including excavation, backfilling, removal of surplus material, timbering and removal of same when directed, per lin. ft.	8.00	8.00	10.00
2 3-pile dolphins, complete, each	60.00	100.00	200.00
1 apron, including rock, concrete, etc., at mouth of sewer, as per plan	485.00	300.00	100.00
1 wing wall and inlet, as per plan	130.00	100.00	100.00
300 cu. yds. concrete, more or less, per cu. yd	10.00	15.00	7.75
Total	$242,378	$264,643	$265,060
To do any and all work ordered by the City Engineer to meet unforeseen obstacles for the following prices:			
For crushed rock for foundation, per cu. yd	$2.50	$3.00	$2.50
Solid rock or cement gravel which cannot be removed without drilling and blasting, in open cut, per cu. yd.	1.50	2.00	1.50
Solid rock which cannot be removed without drilling and blasting, in tunnel, per cu. yd	2.50	6.00	6.00
Cement gravel which cannot be removed without drilling and blasting, in tunnel, per cu. yd	3.00	3.00	3.00
4-in. drain tile in place, per lin. ft	.06	.10	.10

SEWER.—Denver, Colo.—Bids were received by the Board of Public Works on Sept. 22 for East Side Improvement, District No. 1, sewer. The bidders and bids in detail were as follows: (A) The Colorado Co., Nassau Bldg.; (B) The Gaffy & Keefe Construction Co., 311 Exchange Bldg.; (C) J. Fred. Roberts, 1850 16th St., all of Denver:

BIDS RECEIVED ON SEPT. 22 FOR SEWER, EAST SIDE IMPROVEMENT, DISTRICT NO. 1, DENVER, COLO.

	(A)	(B)	(C)
193,000 cu. yds. grading	$0.16	$0.16	$0.14½
75,625 ft. concrete curb and 24-in gutter	.65½	.62	.63½
1,733 ft. concrete curb & 24-in. gutter, circular	.65½	.62	.65
124,165 sq yds. disintegrated granite surfacing	.25	.27	.25
2,375 ft. 27-in. vitrified pipe storm sewer	2.50	2.30	2.45
3,0 ft. 12-in. vitrified pipe storm sewer	.80	.84	.70
165 ft. 10-in. vitrified pipe storm sewer	.70	.77	.70
5 10-in. Y's on 27-in. pipe	2.75	5.40	7.50
1,700 ft. vitrified pipe culvert	.60	.80	.70
11 No. 8 inlets (brick)	36.00	55.00	40.00
6 manholes (brick)	39.00	35.00	32.50
Total	$120,557	$120,420	$116,190

EARTH-SPREADERS ETC. — Panama. — Bids are asked until 10.30 a. m., Oct. 16, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for ten earth-spreaders, 14 unloader plows, 300 condenser tubes, twist drills, ratchet drills, mandrel presses, tube expanders, etc. This is the third time that a call has been made for earth-spreaders, bids having been rejected in each of the preceding instances. The previous specifications were for spreaders of the type now in use on the isthmus, in the case of these spreaders, it will be necessary for the superstructure above the car body to be at least 50% stronger and more substantial, and the side wings and bracing to be from 75 to 100% stronger than the heaviest bank spreaders now in use in the United States or on the isthmus.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

SMELTER.—Sonora.—The Transvaal Mining Co., of Sonora, has decided to erect a smelter, at a cost of $200,000.

RUBBER FACTOR.—Coahuila.—Francisco Madero, of Parras, State of Coahuila, largely interested in the manufacture of rubber, states that the Compania Explotadora de Parras will erect a 10 ton factory for the manufacture of rubber from the guayule plant, at the Hacienda Los Delicias, State of Coahuila, to cost about $100,000.

PLACER DREDGES.—La Brisca, Sonora.—The Greene Gold Co., owning placers at La Brisca, Sonora, has decided to purchase two steam dredges to operat the placers. Contracts will be let within a few weeks. The two dredges will have an aggregate capacity of 2,500 tons daily, and should they prove satisfactory more will probably be purchased.

RAILWAY.—Puebla.—The location of the line of the projected railway to connect the City of Puebla with Atlixco is nearly completed, and construction is expected to commence in the near future. The road will be operated by electricity, and will be about 23 miles long. H. E. Matton, City of Puebla, is Ch. Engr.

RAILWAY.—Sonora.—Preliminary surveys areto commence soon for a proposed line of railway from Carbo, a division point on the Sonora Ry., to Copet and Ures and thence to some point i nthe valley of the Yaqui River. The proposed line will be over 500 miles in length, and Arizona and California capitalists are interested in its construction. J. J. Hardwick, of Los Angeles, Cal., is the principal promoter.

MINING MACHINERY.—Guanajuato, Gto. —At a meeting of the directors of the Guanajuato Reduction and Mines Co., held in New York on Sept. 10th, it was decided to construct an addition to its reduction plant at Guanajuato, increasing its capacity from 250 to 750 tons a day. There is a probability that the plant will be further increased to a capacity of 1,500 tons a day. It is hoped to have the additional plant authorized in operation within six months. C. L. Kurtz is Pres.

IRRIGATION WORKS.—Jalisco and Michoacan.—Manuel Cuesta Gallardo, residing in Guadalajara, State of Jalisco, who holds a Federal concession to irrigate and reclaim lands bordering Lake Chapala, in the States of Jalisco and Michoacan, has secured a loan of $1,000,000 to prosecute the work of construction. Canals will be built and pumps installed, to be operated by power to be derived from development of water power on the Santiago River, and electric energy transmitted to required points.

THEATER.—City of Mexico.—A company has been organized to construct a theater in Mexico City. It will probably have a seating capacity of 5,000. Cost of the building, exclusive of cost of land, will be about $800,000. It is stated stated construction will be pushed vigorously, as soon as the site has been determined upon. Hon. Sebastian Camacho, Pres. of the Banco Nacional; Manuel Pareda, Director of the Banco Nacional; Lic. Emilio Pardo, Fernando Camacho, Jose M. Zavada Baldenebro and Jose E. Gomez, constitute the consulting board of the company.

ELECTRIC RAILWAY.—Tampico, Tamaulipas.—It is reported that an agreement has been made between the Mexican Central Ry. Co. and the Tampico Street Ry. Co. providing for running electric trolley cars between that city and the gulf shore at La Barra, a distance of about seven miles. The street car company will be given a right-of-way by the Central Co., and agrees to discontinue the suburban train now operated between the two places. It is not proposed to electrify the tramway lines in the city proper at this time.

DAM AND ELECTRIC POWER PLANT.—Chihuahua.—It is reported that the construction of the great dam and power plant on the Concho River, above Santa Rosalia, State of Chihuahua, is practically assured. A temporary organization has been formed for the purpose of protocolizing the Northern Electric Power Co., which will be capitalized at $10,000,000, Mexican currency, and will control and direct the enterprise. Lic. Joaquin Cortazar is interested, and may be addressed at Calle Aldama, 700, Chihuahua, Chih.

RAILWAY. — Guaymas-Guadalajara.—The engineering corps of the Southern Pacific Ry. has completed the location of the entire line from Guaymas to Guadalajara, and plans have been presented to the government for approval. It is said the maximum grade is a trifle over 1½%. The company has already completed the construction from Guaymas south to Torin, a distance of nearly 100 kilometers. As soon as the plans are approved by the government the construction force will be increased, and work commenced from the Guadalajara end. The representative of the company in Mexico is Epes Randolph, Pres. Federal Engineering & Construction Co., San Juan de Letran, No. 3, Mexico, D. F.

RAILWAY EQUIPMENT.—Guadalajara, Jalisco.—Contracts for equipment for the electric tramways, owned by "La Electra Cia., S. A.," of Guadalajara, have been awarded as follows: 40 cars, costing about $6,000 each, to the McGUIRE-CUMMINGS CO., of Chicago; iron trolley poles and copper wire to the UNITED STATES ST. PRODUCTS CO. There will be about 1,800 poles required, and the cost of the wire will be about $200,000. Dynamos, switchboards and other electrical equipment will be furnished by the GENERAL ELECTRIC CO. There will be three dynamos of 600-HP. each, and two of 200-HP.

RAILWAY.—Sonora.—A concession has been granted, for a period of 99 years, to construct and operate a railway starting from the Carbo station of the Sonora Railway and terminating in the Copeta mining camp. Surveys must commence within six months, and the construction of at least ten kilometers be completed within 18 months, and each year thereafter at least another 10 kilometers must be built, so as to complete the whole line within five years. The road is to be standard gage. The headquarters of the company are in Hermesillo, Sonora. A. S. Mackenzie is the concessionaire.

SMELTER AND REFINERY.—Sonora.—The Southern Pacific Ry. Co. is planning to build a large smelting plant and a refinery for copper bullion in the State of Sonora, at a point on its extension somewhere between Naco and Benson, near the Arizona line. In addition to the smelter and refinery a factory which will turn out all classes of copper products, such as wire, cable, sheet copper and all class of goods used in mechanic and the arts. The representative of the Southern Pacific in Mexico is Epes Randolph, Pres. of the Federal Engineering & Construction Co., San Juan de Letran, No. 3, City of Mexico.

ROLLING STOCK.—Mexican Central Ry.—The Mexican Central Ry. Co. has just contracted for a large amount of rolling stock. The BARNEY & SMITH CO. will furnish four combination baggage, mail and express cars, and eleven straight express cars, to be delivered in November. The STANDARD STEEL CAR CO. will commence delivery next January of 750 steel under frame box cars of 80,000 lbs. capacity, 100 steel under frame stock cars of 60,000 lbs. capacity, 100 steel under frame flats of 80,000 lbs. capacity, and 180 steel under frame oil cars with capacities of 9,800 gallons. The company is now receiving bids for a large passenger car order, with delivery guaranteed for next February.

RAILWAY TERMINALS.—Veracruz.—It is expected work on the railway terminals in the city of Veracruz will be commenced immediately after the close of the rainy season. The necessary surveys will be completed within a few weeks. Estimates place the cost at more than $6,000,000, and the time to complete the work at from 18 months to two years. The plans contemplate a large union station located near the water front. The station will be two stories and of brick and stone. The new custom house will be built on the freight wharf. A large number of cranes will be required to handle heavy freight.

RAILWAY.—Guadalajara-Durango.—A. M. Shaw, Locating Engr. of the International Ry. Co., is surveying a line to connect the City of Durango with Guadalajara. It is said construction will commence within a month, from the Durango end. The line surveyed passes about 20 kilometers west of the city of Aguascalientes, and it is reported that city will, probably, be connected with the main line by a branch. The surveyed line runs from the city of Durango southeast to Gutierrez, where a connection will be made with the Mexican Central. From Gutierrez the line continues south to near the city of Aguascalientes. The following towns are touched by the line surveyed: Nombre de Dios, Chaichuichitas and Sombrerete.

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—
Pittsburg, f. o. b. cars—Angle bars, 1.50 to 1.75 cts.; spikes, 2.20 to 2.25 cts.; bolts, square nuts, 2.60 to 2.65 cts.; bolts, hexagonal nuts, 2.75 to 2.80 cts.

RAILS, STEEL—
New York—at mill—New standard sections, $28; standard, second quality $27; light sections 12 to 25 lbs., $28 to $32; old iron f. o. b. New York $19.50 to $20.50; old steel, long lengths, $18 to $18.50; old steel, short pieces, $16 to $16.50.
Pittsburg—Standard sections, at mill, $28; standard, second quality, $27; light rails, 12 to 25 lbs., $28 to $32.

STRUCTURAL MATERIALS—
New York—at tidewater—Beams and channels, up to 15-in., 1.84½ cts.; over 15-in., 1.84½ cts.; angles, 3 × 2 and up to 6 × 6, 1.84½ cts.; tees, 3-in. and larger, 1.89½ cts.; tees, 3-in. and larger, 1.89½ cts.; steel bars, half extras, 1.74½ cts.

PLATES AND SHEETS—
New York—at tidewater—Sheared plates, tank, 1.76½ to 1.86½ cts.; flange, 1.84½ cts.; marine, 2.04½ to 2.24½ cts.; still bottoms, 2.04½ cts.; fire-box, 2.24½ to 3.05 cts.
Pittsburg—Tank, ¼-in. thick and heavier, 1.60 cts.; black sheets, 27 gage, 2.40 to 2.45 cts.; black sheets, 28 gage, 2.50 to 2.55 cts.

IRON—
Pig Iron:
At New York—tidewater—

Northern—		
No. 1 X foundry	$21.	to $23.
No. 2 X foundry	20.50	to 22.50
No. 2 plain	20.	to 22.
Gray forge	18.	to 20.
Basic	19.50	to 20.
Virginia—		
No. 1 foundry	21.10	to 21.60
No. 2 foundry	20.10	to 21.10
Basic	19.75	to 20.
Southern—		
No. 1 foundry	19.50	to 21.
No. 2 foundry	19.	to 20.50
No. 3 foundry	19.50	to 20.50
No. 4 foundry	18.	to 18.50
No. 1 soft	19.50	to 21.
No. 2 soft	19.	to 20.50
Gray forge	17.	to 17.50
Mottled	16.50	to 17.
Basic	19.50	to 20.
At Chicago—		
Lake Superior charcoal	$20.50	to $21.
Northern coke foundry, No. 1	20.50	to 21.
Northern coke foundry, No. 2	20.	to 20.50
Northern coke foundry, No. 3	19.50	to 20.
Northern Scotch, No. 1	20.50	to 21.00
Ohio strong softeners, No. 1	21.30	to 21.80
Ohio strong softeners, No. 2	20.80	to 21.30
Southern coke, No. 1	20.40	to 20.90
Southern coke, No. 2	19.90	to 20.40
Southern coke, No. 3	19.40	to 19.90
Southern coke, No. 4	18.90	to 19.40
Southern coke, No. 1 soft	20.40	to 20.90
Southern coke, No. 2 soft	19.90	to 20.40
Southern gray forge	17.40	to 17.90
Southern mottled	17.15	to 17.65
Malleable Bessemer	20.50	to 21.
Standard Bessemer	20.80	to 21.30
Jackson Co. and Kentucky Silvery, 6%	22.30	to 22.80
Jackson Co. and Kentucky Silvery, 8%	23.30	to 23.80
Jackson Co. and Kentucky Silvery, 10%	24.30	to 24.80
At Pittsburg, f. o. b. cars—		
No. 2 foundry	$19.35	to $19.85
Gray forge	17.30	to 17.85
Bessemer iron	19.35	to 19.85
Ferro-manganese	80.	to 90.
Muck bars	30.	to 31.
Iron bars	1.60	to ..

Cast-iron Pipe,
New York—Carload lots, net tons, 6-in., at tidewater, $32.
Chicago—4-in. water pipe, $32.50; 6-in. and larger; $31.50; with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—
Asphaltum:
Ventura and other California asphalts, $19 to $21 per ton at New York; Trinidad refined, $20 to $25 per ton; Venezuela asphalt, $25 to $30 per ton; Bermuda asphalt, $25 to $30.
Cement:
Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.
Copper:
Lake, 19.87½ to 20.12½ cts.; electrolytic, 19.37½ to 19.87½ cts.; casting, 19.25 to 19.62½ cts.
Lead
New York, spot, 5.97½ to 6.02½ cts.
Spelter
New York, spot, 6.15 to 6.20 cts.
Tin
New York, spot, 41.25 to 41.70 cts.
Tar:
New York, $5.85 to $6 per bbl.
Pitch:
New York, $3.20 per bbl.

LUMBER—
New York, wholesale prices:
Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50; 80 ft. and up, $16.
Railroad ties—Yellow pine, 6 × 9 ins. × 8 ft., 67 to 69 cts.; 6 × 8 ins. × 8 ft., 62 to 64 cts.; 7 × 9 ins. × 8 ft., 75 to 77 cts., 7 × 8 ins. × 8½ ft., 74 to 75 cts.; 7 × 9 ins. × 8½ ft., 79 to 80 cts.

INDUSTRIAL NOTES.

THE UNIVERSAL PORTLAND CEMENT Co., a new subsidiary company of the United States Steel Corporation, has taken over the plants and business of the Cement Department of the Illinois Steel Company, and will continue the manufacture of Universal Portland cement of the same high quality as heretofore. Edward M. Hagar, who has for six years been Manager of the Cement Department of the Illinois Steel Company, is President of the Universal Portland Cement Company, with headquarters in The Rookery, Chicago. The Board of Directors consist of the following: Judge E. H. Gary, Chairman Board of Directors, U. S. Steel Corporation; Mr. E. J. Buffington, President, Illinois Steel Co.; Mr. A. C. Dinkey, President, Carnegie Steel Co.; Mr. T. J. Hyman, Secretary and Treasurer, Illinois Steel Co., and Mr. Edward M. Hagar, President, Universal Portland Cement Co.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 122.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., September 26, 1906.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 22d day of October, 1906, and then opened, for the installation of a conduit and electric wiring system for the U. S. Post Office and Court House at Sherman, Texas, in accordance with drawings and specification, copies of which may be had at this office, or at the office of the Superintendent of Construction, Sherman, Texas, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 14-2t

OFFICE OF THE COMMISSIONERS, D. C., Washington, Sept. 29, 1906.—Sealed proposals will be received at this office until 12 o'clock noon, October 19, 1906, for laying cement sidewalks in the District of Columbia. Blank forms of proposal and specifications, together with all necessary information, may be obtained at Room 43, District Building. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 14-2t

FORT DUPONT, DELAWARE CITY, DEL., September 29, 1906.—Sealed proposals, in triplicate, will be received here until 11 a. m., October 29, 1906, for constructing a Crematory Building and Garbage Crematory at Fort DuPont, Del. Information furnished on application. U. S. reserves right to accept or reject any or all bids or any part thereof. Envelopes containing bids should be indorsed "Proposals for Garbage Crematory and Building," addressed CAPTAIN LOUIS F. GARRARD, JR., Q. M. 14-3t

DEPARTMENT OF THE INTERIOR, United States Geological Survey, Reclamation Service, Washington, D. C., October 1, 1906.—Sealed proposals will be received at the office of the U. S. Reclamation Service, Mitchell, Nebraska, until 10 o'clock a. m., November 1, 1906, for the construction of a diversion dam and headworks involving about 100,000 yards of excavation, furnishing and placing in structures about 10,000 feet B. M. of lumber, and the construction of about 8,000 cubic yards of concrete masonry in connection with the North Platte Project, Nebraska. Particulars may be obtained from the Chief Engineer, United States Reclamation Service, Washington, D. C., or from John E. Field, Project Engineer, Mitchell, Nebraska. THOS. RYAN, Acting Secretary. 14-4t

U. S. ENGINEER OFFICE, Jones Building, Detroit, Mich., October 2, 1906.—Sealed proposals for hire of dredging plant for use in St. Marys River, Michigan, will be received at this office until 2 p. m., Oct. 22, 1906, and then publicly opened. Information furnished on application. CHAS. E. L. B. DAVIS, Col., Engrs. 14-3t

Situations Wanted

MECHANICAL ENGINEER (28), with good knowledge of men, general engineering (reinforced concrete) and some business experience, now employed, desires change. Address "Z. A. 14," Engineering News, New York. 14-1t

YOUNG MAN, technical training, desires position with civil engineer or surveyor. Salary moderate; chance for advancement. Address "A. A. 14," Engineering News, New York. 14-1t

DRAFTSMAN.—Position wanted by young lady having four years' experience, farm and city surveying. Familiar with typewriter. Address "B. A. 14," Engineering News, New York. 14-1t

SITUATIONS OPEN

WANTED.—Experienced engine erectors for permanent employment in one of the largest engine manufacturing concerns in the country. Address "W. A. 14," Engineering News, New York. 14-4t

WANTED.—Experienced pneumatic pressure foreman, for work on Missouri River bridge. Applicants must state experience and salary wanted, and give references. Apply to undersigned. ENGINEER & SUPT. BRIDGES & BUILDINGS, C., M. & St. P. Ry., Chicago. 14-1t

WANTED.—Civil engineer to assist in the building of reinforced concrete buildings, concrete foundations for machinery, etc. Must have had considerable experience. Address, giving details of experience and salary required, EDISON PORTLAND CEMENT CO., Stewartsville, N. J. 14-3t

WANTED.—Mechanical engineer on construction work. Must have had considerable experience with the erection of machinery. Experience with cement machinery not necessary. First-class position in operating department after construction is completed. Good opening for right man. Give details of experience and state salary expected. Address THE EDISON PORTLAND CEMENT CO., Stewartsville, N. J. 14-3t

STRUCTURAL DRAFTSMEN WANTED immediately in New York. Give age, salary, experience. Address "X. A. 14," Engineering News, New York. 14-1t

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New Steam Shovels

FOR SALE.

One Marion Model 20
November Delivery

One Marion Model 60
Immediate Delivery

One Bucyrus 70 ton
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